

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MARCH 15, 1958

Serial Dept.



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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CONTENTS

Pennsylvanians Meet at Harrisburg	7
By Robert P. Meahl	
Landscape Design Talk on West Virginia Program	8
By W. R. Fortney	
Rhode Island Group Elects	8
By Anthony Williams	
Landscaping Theme in Massachusetts	9
By John C. Dwyer, Jr.	
Finance Talks Heard at Lake County School	10
By Marie Brandstaetter	
Propagating Dogwood by Cuttings	11
By L. J. Enright	
Plants with Heart-Shaped Leaves	12
By Clarence E. Lewis	
Plants, Plastic Structures, New Hampshire Interests	14
By Lawrence Dougherty	
Papers Heard at Shade Tree Meeting	15
By Noel Wysong	
Idaho Association Meets and Holds Garden School	16
By Robert V. Gates	
Bedding Plants, Colorado Course Topic	17
By W. K. Sonnemann, Jr.	
Kalamazoo Valley Group Elects and Discusses Clinic	18
By Roland Hunt	
Beginning in the Nursery Business	38
By John J. Pinney	
Pruning Ornamental Shade Trees	62
Reported by Bryson L. James	
Insect Pest Control for Ornamental Stock	76
By Clyde C. Hamilton	
Plant Notes Here and There	90
By C. W. Wood	
Propagation of Annuals and Perennials	126
Reported by F. C. Galle	
Christmas Tree Growers Air Problems in Indiana	136
By Irving J. Matthews	
Editorial	6
—Common Names	6
—Making Headway	6
—Looking Ahead	6
Florida Freeze Reports	18
Coming Events	20
—Meeting Calendar	20
—Florida Convention	20
—Plans for Alabama	20
—International Congress	20
Milwaukee Trade Aided	26
Cover Illustration	30
—Acer Pseudoplatanus Worleei	30
Obituary	36
—Edward Lehde	36
—Chester H. Moon	36
—James P. Harding	36
Dormant Sprays	36
This Business of Ours	54
—Tubbed Plants	54
Minnesota Arboretum	56
Wilt in Oak Flowers	58
Specialized Data List	60
Plant Patents	70
Kansas Landscape Group	87
Texas Lath Unit Leased	89
Grub-Proofed Lawns	96
Little-Cherry Symptoms	97
California Association of Nurserymen	100
—Centinela Board Meets	100
—Monterey Board Meeting	100
California Notes	100
Arborists' Committees	102
Oregon Notes	103
Lenora Walters Resigns	105
Book Reviews	121
New Bulletins	134

INDEX TO ADVERTISERS

Akay Corp.	139	Edwards Laboratory	140	Lindley Nurseries, Inc.	94	Schroth's Nursery	81
Alanwood Nursery	48	Elmer Roses	101	Lopat, D.	144	Schumacher, F. W.	15
Allen Co.	159	Ernst, Inc.	78	Lovett's Nursery, Inc.	58	Select Nurseries, Inc.	102
Allenore Agricultural	88	Evergreen Farm Nursery	68	Lustgarten, Baier	52	Semmes Nurseries	68
American Agricultural Chemical Co.	147	Evergreen Nursery Co.	86			Shell Chemical Corp.	42
American-Dutch Trading Corp.	134			Magee, Thomas J.	150	Shade's Nursery	44
American Farm Machinery Co.	137	Fafard, Inc., Conrad	132	Maloney Bros. Nursery Co.	89	Shenandoah Nurseries	107
American Landscape School	144	Fairview Evergreen Nurseries	58	Marshall Nurseries	88	Shepard Nurseries	40
Anderson & Sons, Kenneth J.	157	Fern Hawaii Co., Inc.	148	Martin Co., Inc., Joseph F.	75	Sherman Nursery Co.	40
Angelica Nurseries	42-44-58-64	FertilEZE, Inc.	53	Matthews Nursery	85	Sherman Products, Inc.	40
Anthony & Co., Inc.	142	Filon Plastics Corp.	57	McGee Nurseries, Lowell H.	96	Sherwood Nursery Co.	26-27
Anthony Lake Nursery, Inc.	95	Fitchburg Engineering Corp.	124	McGill & Son, A.	104	Shore & Co., J.	153
Aquatrols Corp. of America	130	Flickinger's Nursery	64	McIninch Greenhouses	72	Siebertthal Co.	40
Armintrout's Evergreen Nursery	24	Floc-Flo Engineering Design	144	Meehan & Sons, Thomas	152	Skinner Irrigation Co.	140
Asplundh Chipper Co.	92	Floral Gardens Nursery	86	Merry Mfg. Co.	145	Smith Bros. Nursery	140
Associated Bulb Growers of Holland	98	Florist Products	150	Menne-Pot, Inc.	145	Smith Corp., W.T.	84
Atkin's Sons, L.	154	Florists' Review	144	Milvale Chemical Co.	132	Smith's Forest Tree Nursery	84
Augustine Ascending Elm Research Assoc.	74	Flower Grower Magazine	41	Milton Nursery Co.	102	Sneed Nursery Co.	84
		Flowerwood Nursery	96	Mist-O-Gation, Inc.	62-124	Sod-Master Corp.	10
		Ford Motor Co.	49	Mitsch Nursery	101	Soil & Plant Research, Inc. Laboratories of	126
		Forest Nursery Co., Inc.	97	Morton Nursery Co.	82-83	Somerset Rose Nursery, Inc.	140
		Foster Nursery Co.	89	Moran, E.C.	85	Sound Screen Supplies, Inc.	144
				Morning Star Nursery	94	Split Rock Nurseries	140
Bagatelle Nursery	60	Garden Shop, Inc.	138	Morris Nursery, Ltd., C. D.	97	Sprayers & Nozzles Sales	140
Bailey Nurseries, J. V.	75	Gardner's Nurseries, Inc.	60	Moses Nurseries	62	Standard Engineering Works	125
Ball, Inc., Geo. J.	160	Geiger Co., E. C.	135	Mount Arbor Nurseries	2	Standard Oil Co. (Indiana)	140
Bartlett Mfg. Co.	128	Geigy Chemical Corp.	71	Mount Hood Nurseries	103	State College Laboratories	140
Beardslee Nursery	66-72-86-87-89	Gilson Gardens	89	Muller, Inc., Fred W.	51	Stauffer Chemical Co.	140
Benedict Nursery Co.	104	Gledhill Road Machinery Co.	132	Musser Forests, Inc.	32-33	Stedman Nurseries, Inc.	140
Bentley's Hardy Plants	85	Glen St. Mary Nurseries Co.	97	Myers, E. Normand	48	Steele's Pansy Gardens, Inc.	84
Berryhill Nursery Co.	84	Gold Chestnut Nursery	96			Stephens Nurseries	140
Big River Nursery	93	Green Mfg. Co., Howard C.	140	National Ideal Co.	159	Sterling Bag & Burlap Corp.	140
Bird & Son, Inc.	37	Gresham's Nursery	36-97	National Landscape Institute	127	Stress-Reuter, Inc., Fred'k A.	133
Blackwell Nurseries	90	Growers Exchange, Inc.	79	Natrop Co., W. A.	89	Stribling's Nurseries	106
Bobbink Nurseries, Inc.	62	Growers Sign Service	146	Nekoosa-Edwards Paper Co.	79	Summit Nurseries, Inc.	140
Bolens Products Div.	161	Gulf Stream Nursery, Inc.	75	New Amsterdam Import Co.	145	Suncrest Evergreen Nurseries	140
Bosley Nursery	68-80	Gutbrod Co., A. H.	146	New Jersey Farm Supply Co., Inc.	129	Sunderland Pipe Shop	140
Boulevard Nurseries	58			Coop, Asan, Inc.	129	Supreme Electric Products Co.	140
Boyd Nursery Co.	55			New York Bag & Burlap Co.	155	Sweeney, Krist & Dimm	133
Bridgeport Implement Works, Inc.	138	Half Moon Mfg. & Trading Co.	159	Nichols Wire & Aluminum Co.	125	Swift & Co.	140
Brillion Iron Works, Inc.	35	Halpern Bros.	144	Nick's Nursery	93		
Bronx Refrigerating Co.	127	Hartline Farm, H. B.	76	Novak's Nursery	62	Tankard Nurseries	96
Brookfield Gardens	60	Hawaiian Fern-Wood, Ltd.	127	Nu Bark	142	Tennessee Valley Nursery	96
Brouwer's Nurseries	58	Heller Greenhouse Laboratories	153	Nursery Sales, Inc.	138	Teufel, Alfred	10
Brown Bros. Co.	82	Hess' Nurseries	20	Nursery Specialty Products, Inc.	155	Texas Nursery Co.	96
Brown Deer Nurseries	86	Hill Nursery Co., D.	164			Thimpany Pulp & Paper Co.	40
Bryant's Nurseries	84	Hillenmeyer Nurseries	94	Oakes Nursery	76	Thumling Produce	150
Bulk's Nurseries	58	Hobbs & Sons, Inc., C. M.	70	Onarga Nursery Co.	72	Townson Nurseries, Inc.	50
Buntings' Nurseries, Inc.	64	Hoffco, Inc.	129	Oregon Bulb Farms	102	Tricksler's Nursery	140
		Homestead Nurseries	103	Oregon Fescue Commission	98	Tuckamony Nursery	140
Campbell-Hausfeld Co.	157	Hoogendoorn, C.	Opp. 34	Orr Co., J. A.	140-160	Turfgrass Farm	140
Canale's Forest Nursery	58	Horsford, William Crosby	56	Owen & Son, Inc., T. G.	93		
Carleton Nursery Co.	78	House & Sons Nurseries, L. C.	96	Ozak Nursery Co.	92	Union Carbide Chemicals Co.	140
Carpenter & Co., George B.	148	Howard-Hickory Co.	92			Union Products, Inc.	140
Cartwright Nurseries	22-23	Howard & Smith, Inc.	101	Pacific Coast Nursery	39		
Cassanelli's Glendale Nurseries, Inc.	87	Howards of Hemet	54	Pallack Bros. Nurseries, Inc.	64-65	Vanderbrook Nurseries, Inc.	40
Champion Sprayer Co.	154	Hubbs Nurseries	54	Palmer & Son, J. R.	86	Van's Pines	10
Chase Co., Benjamin	156	Humphreys Landscape Service	94	Panogen Co.	28-29-30	Van Speybroeck, Arthur	10
Chase Nursery Co., Inc.	93			Pearce Seed Co.	96	Van Veen Nursery	104
Chemical Formulators, Inc.	134	Igenfritz Nurseries, Inc.	78	Pedigreed Seed Co.	96	Verhalen Nursery Co.	95-137
Chicopee Mills, Inc.	152	Imperial Nurseries	42	Pedigreed Nursery	51	Verkade's Nurseries	4
Clarendon Gardens & Nursery	91	Imperial Tag & Printing Co.	134	Petersen & Derrin	21	Verona Gardens	68-9
Clarke & Co., W. B.	102	Inland Orchards & Nurseries	86	Piggott Nursery Co.	99		
Classified Ads	106 to 121	International Harvester Co.	96	Pikes Peak Nurseries	46	W-W Grinder Corp.	14
Cloverset Farm	30-31	Iron Mountain Evergreen Co.	96	Planters Aide Products	142	Wade & Garton Nurseries	122
Cole Nursery Co.	74			Plumfield Nurseries, Inc.	50	Wassenberg Gardens	10
Columbia Nursery & Garden Supply Co.	138	J-M Trading Corp.	128	Portland Wholesale Nursery Co.	103	Waynesboro Nurseries	10
Commercial Nursery Co.	89	Jewell Nurseries, Inc.	77	Possum Hollow Nurseries	58	Wayside Gardens	10
Congdon Nursery, Ivan R.	44	Johnson, William A.	161	Premier Peat Moss Corp.	121	Weeks Wholesale Rose Grower	10
Coral Way Products Co.	160	Jons Mfg. Co.	161	Premier Southern Ticket Co., Inc.	130	Wells Nursery, Inc., James	10
Corliss Bros., Inc.	56	Judson Nurseries, Inc.	96	Progressive Equipment Co.	138	Western Maine Forest Nursery Co.	10
Corry Peat Products Co.	147					Whalley, J. B.	10
Cottage Gardens	66	Kallay Bros. Co.	87	Rain Jet Corp.	136	Wheel-Horse Products	10
Crimson Dale Nursery	91	Keeling Nursery, Forrest	68	Rambo's Wholesale Nurseries, L. J.	86	Whiteshows, Inc.	10
Crown Zellerbach Corp.	128	Kelly Bros. Nurseries, Inc.	59	Ra-Pid-Gro Corp.	130	White's Nursery, Carl	10
Cumberland Valley Nurseries, Inc.	90	Kern, Joseph J.	66	Ravensberg, Maurice C.	103	Wight Nurseries, Inc.	10
Cunningham Gardens, Inc.	85	Kingwood Nurseries	66	Reynolds, Harry H.	134	Williams & Harvey Nurseries	10
Curtis Nurseries	54	Klyn, Inc., Gerard K.	79	Rich & Sons Nursery	102	Williams, Isaac Langley	10
		Krieger's Wholesale Nursery	99	Rickert Nurseries	46	Willis Nursery Co.	10
Danegger's Hi-Way Nursery, Inc.	58			Robinson Sales Agency, E. D.	54	Willowbend Nursery	10
Daniels, Inc., Ross	141	LaBans' Rhododendron Nursery	64	Rogers Nursery, R. H.	54	Wilson Nurseries, C. E.	10
Darling Co., J. L.	127	Lake City Nurseries, Inc.	80	Rohm & Haas Co.	123	Wire Basket Co.	10
Dayton Fruit Tree Label Co.	154	Lake County Nurserymen's Assn.	66	Rolcor Industries	135-158	Wood Products Co.	10
Deerfield Nurseries	46	Lake Sammamish Evergreen Nursery	104	Rootspred	140	Woodruff & Sons, F. H.	10
Deeter & Sons Nursery	87	Lansing Specialties Mfg. Co.	130	Roto-Hoe & Sprayer Co.	150	Wright, C. D.	10
Del-Mar-Va Nurseries	54	Leeland Farms	90	Rough Bros.	152	Wyatt Products, Inc.	10
Descanso Distributors, Inc.	104	Leghorn's Evergreen Nursery Co., Inc.	52	Royer Foundry & Machine Co.	143	Wyoming Nursery	10
Diamond State Nurseries	54	Leonard & Son, A. M.	126	Rummel Nurseries	60		
Dible Nursery, Sam	48	Lerico Corp.	142	Ryan Landscaping Equipment Co.	148		
Dofy & Doerner, Inc.	103	Leuthardt, Henry	64				
Dunwoody Co., Est.	131	Lindig Mfg. Co.	151	S-W Supply Co.	156		
Du Pont de Nemours & Co., Inc., E. I.	Opp. 50			Saffer, Al	141	Zelenka Evergreen Nursery, John G.	10
Eagle Creek Nursery Co.	79			Scarff's Nursery, Inc.	81		
Eastern Shore Nurseries, Inc.	52						

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Forms for the May 1 issue will close Friday, April 11

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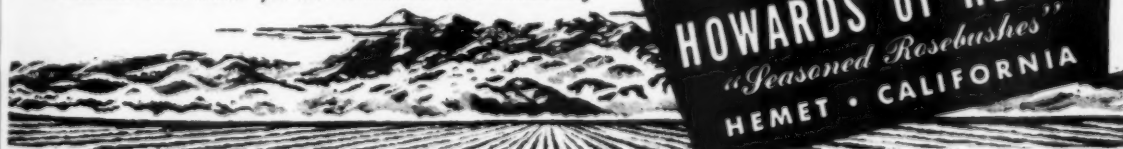
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Editorial

COMMON NAMES

At a recent meeting of nurserymen reported in this magazine, an advertising executive advised his hearers not to use botanical names in their advertising, but common names only. In attracting the attention and the orders of the general public, no doubt it is preferable to use a common name, especially when the Latin name is a tongue twister, but we thoroughly believe that the code of ethics adopted by the industry should be followed and, while the common name may be headlined or otherwise made prominent, the botanical name also should appear in an advertisement. This is especially true if the advertising is widely circulated, since a common name is likely to be restricted in its use.

This subject has been so much discussed by and before nurserymen that little remains to be said on the question, except that it affords an opportunity to relate how puzzling local common names can be.

A nurseryman who visited in a southern state recently clipped a few offers from the wanted and for sale column of a small local newspaper. He was able to identify the toothache bark tree, he said, as *Zanthoxylum clava-herculis*. Why it is called toothache bark tree can be imagined, but the more accepted common name would be Hercules'-club, which is the meaning of the species name.

Other offers in the local newspaper referred to never-never plants, crybaby seeds and graybeard, among other items more familiar. Possibly the crybaby plant is helxine, usually known as baby tears, but the other two defy investigation.

Of course, a northerner should not go shopping for seeds and plants in a 4-page semiweekly newspaper published in a small southern town, but there are other common names just as inexplicable that appear in magazines circulated over a considerable area, if not nationally.

The Mirror of the Trade

MAKING HEADWAY

Opposition to grants by the federal government to states for the production and distribution of seedling trees has been consistently maintained by the American Association of Nurserymen, with the support of organizations in those states where commercial nurseries produce seedlings suitable for wood lot and reforestation work. The 1959 budget now being considered by Congress reflects the headway being made by that opposition. Last year A. A. N., in filing appearance and presenting testimony before the Congressional committee, opposed appropriations of \$4,000,000 under title 4 of the agriculture act of 1956 and opposed the entire \$1,308,000 of federal grants under section 4 of the Clarke-McNary act. Its success was indicated by the fact that final appropriations in 1958 were \$500,000 for title 4 and \$1,258,000 for section 4 of the Clarke-McNary act.

Not only was there a successful reduction in the production of seedling trees by the government in competition with the nursery industry, but there was effected a saving for taxpayers of \$3,550,000.

This year the budget bureau is asking for only \$258,000 under section 4 of the Clarke-McNary act and nothing under title 4 of the agricultural act of 1956. The latter is thought to have outlived its original purpose, "to stimulate tree-planting programs in the states." This year the A. A. N., in its appearance and testimony before the Congressional committee, not only will support these reductions, but recommend a further cut of \$258,000, so as to eliminate entirely the appropriation for section 4 of the Clarke-McNary act.

The forestry service is said to be working to restore the cuts in these appropriations, and the A. A. N. will require of nurserymen support in its position. This can be given by writing to Congressional representatives, so that they will be aware of the active and general opposition to government competition and also the urge to save the taxpayers money.

In this connection it may be added that the A. A. N. has taken a positive stand for discarding the entire soil bank acreage reserve program intended to reduce crop surpluses. The program was unsuccessful in respect to the tree-planting phase, because 85 per cent of the tree-planting acreage put under contract in 1957 was in 10 southeastern states,

where it was economically attractive to plant trees on worn-out cotton and tobacco land for wood pulp production.

The administration has recommended an end of the acreage reserve, but is in favor of an expanded conservation reserve. This the A. A. N. is seeking to replace in the form of an expansion of the Great Plains conservation program under the direction of the soil conservation service. The A. A. N. contends that this is primarily a grass program and not a tree-planting or reforestation program and should not be under the direction of the forest service, now in charge of the soil bank program. Inasmuch as the soil bank farm program is a live issue before Congress this session, the A. A. N. also seeks support in this position and, in that connection, has issued a press release to about 1,700 newspaper and radio outlets, a copy of which has gone to each of its members.

LOOKING AHEAD

Especially in these days of heavy income taxes, a thriving business is a better inheritance to leave one's nearest kin than the savings in cash one may be able to acquire. But it requires foresight in order that adequate value may be obtained for the business when the owner is no longer able to operate it either on account of death, old age or poor health.

In many cases, sons follow in the fathers' footsteps in the nursery business, and they are able to take over the enterprise and retain its value as a going concern. But the nurseryman who has no near relatives to continue his business needs to give thought to the problem and to plan ahead. If there is a competent employee who is able to acquire an interest, either during the owner's lifetime or upon his death, the widow sometimes is adequately provided for. If the enterprise just closes its doors and ceases business, a sale of the physical assets will realize comparatively little.

Even a 1-man enterprise has a value in good will and in customer loyalty which may be passed on. As the owner advances in years, it is the more necessary that he give thought to this problem and, even if he must have legal advice, work out a plan whereby the value of his life's work will accrue to his heirs and not be scattered to the winds when he can operate his business no more.

Pennsylvanians Meet at Harrisburg

Hear Talks and Panels on Advertising, Selling, Weed Killers, Credits and Salesyards

By Robert P. Meahl

The Pennsylvania Nurserymen's Association held its winter meeting at Harrisburg February 12 and 13. New officers elected were president, Stanley M. Leighton, Whitemarsh Nursery, Plymouth Meeting; first vice-president, Raymond J. Hively, Shiloh Nurseries, York, and second vice-president, Herbert Hoechstetter, Hoechstetter Nurseries, Verona. New members of the board of directors are John F. Styer, Styer's Nurseries, Concordville, eastern region; Fred Mummert, Colonial Nurseries, Harrisburg, central region; Dominic Palombo, South Hills Nurseries, Pittsburgh, western region, and as immediate past president, Homer A. Thornton, Thornton's Nursery, Conneaut Lake, member at large.

The meeting opened with three round-table discussions on "Advertising," "Prolonging the Nursery Season" and "Tie-In Products for the Landscape Nurserymen." In the first, led by H. G. Seyler, Farr Nursery Co.; Sidney B. Hutton, Sr., the Conard-Pyle Co., West Grove, and Ben Palmer, Rose Valley Nurseries, Media, it was brought out that newspaper advertising furnishes an excellent means of reaching local areas. To be effective, the advertisements must be simple but distinct, without having too much in each. Advertising must be used regularly and must be truthful.

Direct-mail efforts may include catalogs, circulars to customers who

have not ordered for some time and informational circulars or letters for a selected mailing list. The basic idea is to persuade persons to visit the nursery or order by mail. Each piece mailed must have material of interest to a wide range of customers if a good response is to be expected.

Radio and TV advertising are expensive and entail much waste. These media may be used cooperatively by a group or association of nurserymen in an area. Appearing as a guest on a garden program is desirable. Individual radio and TV advertising do not appear to be profitable for local nurserymen.

"Prolonging the Season"

"Prolonging the Nursery Season" was led by John F. Styer; John P. Meszaros, superintendent, Hershey Estates, and Frank Brushmiller. Selling living Christmas trees is one way to extend the season, but one must use care in selection of plants sold. Often the price received for the Christmas tree may not be so great as could be received for the same plant the following spring as a nursery plant. It is desirable to purchase inexpensive plants for this type of business. Norway spruce, Scotch pine and Douglas fir are among the best for Christmas trees. Natural wreaths have sold much better than artificial ones. Dipping material in some antitranspirant will prolong the freshness. Flocking was not so popular

last year as formerly; bright colors, especially, were not in demand in the metropolitan areas. Gift certificates have been used effectively, and this idea could be expanded.

Midsummer planting can be used to extend the season, but plants must be well watered before digging and sprayed with an antitranspirant. Customers must be impressed with the importance of subsequent watering. The use of container-grown plants or B&B stock placed in organic material, such as peat or sawdust, is also good.

Maintenance work can be extended by postponing a part of the tree removal and pruning until winter. Pruning work can be done for regular customers in February.

"Tie-In Products" was discussed by Stanley Leighton, Leon Finger, Al Merron and Russell Bettes. The subjects of tie-ins and prolonging the season are closely related. One should keep eyes open for opportunities to sell something all the time. Stone walls, flagstone patios, underground sprinklers and fences are products that can be used. Garden markers are excellent tie-ins with fertilizer, spray material, peat moss and other gardening items to bring in customers and develop plant sales.

Weed Killers

Dr. E. K. Alban, horticulture department, Ohio State University, Columbus, spoke on "Use of Weed Killers in Nursery Stock Production." Dr. Alban pointed out the difficulties encountered in using weed killers in the nursery, as compared to some crops, because of the great variety of species grown. In weed control, one should try to anticipate weed problems and take measures to eliminate them before planting whenever possible. For example, 40 pounds of TCA per acre will eliminate quack grass, and planting can take place six weeks later. After planting, it is not possible to get rid of the quack grass without injuring the plants.

In seedbeds and transplant beds, portable steam sterilization may be used, or if that is not possible, methyl bromide or chloropicrin is good. It is important to watch what is in the fence rows or adjacent areas and

[Continued on page 139]



Officials of the Pennsylvania Nurserymen's Association, which held an election during the recent meeting at Harrisburg: Left to right, Wilbur I. Nisley, secretary-treasurer; Stanley M. Leighton, president; Homer A. Thornton, past president, and R. J. Hively, first vice-president. H. Hoechstetter, second vice-president, is not shown.

Landscape Design Talk On West Virginia Program

By W. R. Fortney

The West Virginia Nurserymen's Association held its winter meeting, with 43 in attendance, February 6 and 7 at the Daniel Boone hotel, Charleston. Registration during the afternoon and evening of the first day was followed by a banquet.

After the banquet an address was given by Prof. W. R. Fortney, of the department of horticulture at West Virginia University, in which the basic principles of landscape design for small home properties were presented.

A design must first be functional if it is to stand the test of time and use, said Professor Fortney. The basic needs and activities of the family must be taken into consideration and areas must then be designed to accommodate these needs. Conventionally, property is divided into areas designated as public, private and service. Changes in home design and social habits have modified these areas to some extent.

The public area should form a setting for the home. This area is generally overplanted, Professor Fortney said. The public area should be simple in concept and plan. Trees should be planted to frame the house, with a taller tree placed behind the house for background. Foundation plantings should be kept to a minimum. Much of the shrub mass formerly seen in the foundation planting is more appropriately used at

the side boundaries of the property, where it gives definition and privacy.

The entrance of the house should be the dominant feature of the public area. Entrances with strong architectural detail require less plant material than those without much detail. Again, too much attention is often given to this area. A wise nurseryman will not allow a customer to think that his home is well landscaped when the foundation planting is in.

The major effort should be made in the private area, where much of the play and relaxation of the family

occur, Professor Fortney continued. This area must be enclosed, to attain privacy. Some of the means used to attain privacy are fences, hedges and shrub borders. This area should be planned and planted carefully, if the owner is to derive the greatest possible enjoyment from it.

The service needs vary from family to family, but the service area is one that requires careful planning. Attention should not be called to service features; driveways should not be outlined by clipped hedges or brightly colored flowers.

It is important that the number of plant materials used be kept small and that plant material used prominently in one area be repeated in others. This plan produces the essential elements of simplicity and unity, which are basic to any good design.

Pres. Norman A. Cole, Jr., Blue-
[Continued on page 68]

Rhode Island Group Elects

By Anthony Williams

Robert Kempenaar, president of the Rhode Island Nurserymen's Association, welcomed 75 members and guests to the association's 39th annual meeting February 18 at Johnson's Hummocks grill, Providence, despite a severe snow storm that had curtailed transportation facilities two days earlier.

Elections held during the association's business meeting resulted in the following slate of officers being chosen for 1958: President, Klaas Van Hof, Van Hof Nurseries, Portsmouth; vice-president, Carl A. Vitale, Forest Hills Nurseries, Inc.,

Cranston; treasurer (re-elected) K. J. Murphy, East Providence Nurseries, East Providence, and secretary (re-elected), Anthony Williams, Forest Hills Nurseries, Inc.

Kenneth L. Coombs, 4-H leader for the state of Rhode Island, and Leroy Thompson, superintendent of parks, Narragansett, awarded the Thompson trophy to a boy and girl winner in the 4-H landscaping competition sponsored by the Rhode Island Nurserymen's Association.

Research Report

Mason H. Campbell, dean of the University of Rhode Island, submitted a report on the "Progress of Research" in the nursery field. He was assisted by Dr. William H. Wiley, Dr. Stessell, Dr. Flint and Dr. T. W. Kerr, Jr. His informative talk dealt chiefly with diseases of taxus and andromedas.

Fred M. Langton, tax administrator, gave a talk on the "Rhode Island Sales Tax and How It Affects the Nurserymen." He presented precise and up-to-date information covering questions that the nurserymen submitted to him prior to the annual meeting.

The last speaker on the program was Thomas J. Meehan, director of business regulation, from the office of Senator John A. Pastore, Washington, D. C. Mr. Meehan's address concerned the humorous side of business for the coming year.



Officials of the Rhode Island Nurserymen's Association at the group's recent meeting at Providence: Left to right, Keeran J. Murphy, treasurer; Carl A. Vitale, vice-president; Klaas Van Hof, newly elected president; Robert Kempenaar, outgoing president, and Anthony Williams, re-elected secretary.

Landscaping Theme in Massachusetts

By John C. Dwyer, Jr.

Despite subzero temperatures and hazardous driving conditions, over 225 nurserymen from five New England states met at the Waltham field station of the University of Massachusetts February 20 and 21 to attend the third annual short course sponsored by the Massachusetts Nurserymen's Association.

The success of this year's course was due in large part to the direction of Seth Kelsey, Harlan P. Kelsey, Inc., East Boxford, Mass., chairman of the M. N. A. educational committee; Dr. John Havis, director of the field station, and his staff. This year it was planned that the short course would cover in some detail the following aspects of landscaping: Design, plant materials used in design, the selling of landscape work and the profit that might be expected in this field.

It was interesting to note that nurserymen attending the course were joined by students from the Universities of Massachusetts and New Hampshire, by private citizens, and by men who were contemplating going into business in the nursery field.

Public Landscape Design

The first in a series of addresses on landscape design was given Thursday morning, February 20, by Vincent Merrill, Shurcliff, Shurcliff & Merrill, landscape architects, Boston. Mr. Merrill prefaced his discussion of institutional, industrial and public area landscaping by stating that the increased planting of industrial establishments, schools, shopping centers and highways indicates that the public is becoming increasingly aware of the importance of plants in creating a pleasant environment.

He divided public landscaping projects into four types, according to the structural elements involved. Groups of buildings, such as are encountered in landscaping campuses, public housing developments and, occasionally, hospitals, frequently include many architectural units of unrelated designs. In such a case, said Mr. Merrill, the plantsman has the only means of bringing harmony to the grounds.

The second type of project entails the landscaping of a large multi-story building and is extremely difficult, because the great height and size of the building make any plant-



Principals at the recent short course of the Massachusetts Nurserymen's Association: Left to right, Dr. Richard Howard, director of the Arnold Arboretum; Seth Kelsey, chairman of the course, and Dr. John R. Havis, director of the Waltham field station.

ing virtually insignificant. The most the landscape man can hope for, according to Mr. Merrill, is that there is sufficient land around the building on which to create a parklike setting.

Extensive 1-story buildings, usually rambling, such as contemporary schools and factories, present perhaps the easiest project for the plantsman. The fourth type involves areas in which buildings are insignificant or nonexistent — parks and highways, for example. In such projects, the total effect depends wholly on the strength or weakness of the planting.

He emphasized the fact that landscape plantings are not an end in themselves but must always be subordinated to the over-all appearance of the project. Plantings about a building must serve either a practical purpose, such as defining special areas or providing shade or screening, or a decorative purpose, such as softening harsh building lines, emphasizing important architectural features or relating the building to its setting.

Mr. Merrill stated that plantings should not be used in an attempt to change the character of a building. If a structure is symmetrical, plantings cannot make it unsymmetrical, nor can they make a traditional building contemporary. Clean, simple building lines should not be obscured with a multitude of plants.

Different Techniques Needed

Advocating a simple arrangement of a relatively small number of plant materials for industrial and insti-

tutional plantings, he warned his listeners to beware of extending plant design habits developed in residential work to large-scale public work. In the latter, it is sometimes necessary to use small trees as shrubs and to use large trees as small lawn specimens would be used in small-scale work.

He emphasized that flowering plants must be secondary in public landscaping, as they are effective for only a short time and the year-round appearance of such projects is most important. Giving his opinion that yews and broad-leaved evergreens have been overplanted in recent years, he stated that the public is becoming educated to appreciate the structural patterns presented by deciduous material during the winter. He urged landscape designers to make more effective use of contrasting textures and colors in foliage. The maintenance that will be given to plantings must always be taken into consideration.

Among difficult features of contemporary institutional design he cited large, unrelieved surfaces of one material, such as masonry or glass, the bleak effect of which must be softened with plants; built-in plant boxes, which present the problem of whether the plants in them should be used as an extension of the architecture or as a softening element, and areas subject to heavy traffic, such as parking lots, where landscape material must first be tough and then as beautiful as possible. Vandalism and rough use must

[Continued on page 146]

Finance Talks Heard At Lake County School

By Marie Brandstaetter

The 24th annual nurserymen's school sponsored by the Lake County Nurserymen's Association and the Lake county agricultural extension service February 11 was highly successful. Approximately 175 members and guests from Ohio and Pennsylvania attended the 1-day event, which was held at Hellriegel's Inn, Painesville, O. Newly revised copies of the Lake County Nurserymen's Association membership roster were distributed.

The program for the day started at 9 o'clock, with H. A. Horton, president of the association, presiding. The main topics of the morning session were money and finances. First speaker for the day was Paul G. Craig, associate professor of economics, Ohio State University, Columbus. His subject was "Money: Where It Is and Why." Professor Craig expressed the belief that if any economist were asked about the future, he would be cheerful about the business outlook.

In terms of purchasing power, the American people have about one-third more than they did a decade ago. In a few years, there will be an increase of 2,000,000 families per year. This means that the need for housing will continue, and, by the same token, that nurserymen will be assured of a market for their products. As income rises, horticultural sales also increase proportionately. However, nurserymen are encountering trouble in keeping their money despite a larger volume of business, because their costs are higher. Labor is the greatest and also the most rapidly increasing cost in production.

Wealth Distribution Change

Professor Craig mentioned that in the past 25 to 30 years, the American economic system has undergone a relatively quiet, but forceful revolution. The results have been a dispossessing of the rich and a redistribution of the country's wealth. The ordinary person—the unskilled worker—has been the beneficiary of this economic struggle. Labor unions and government policies regarding full employment have played their part in revising the financial structure.

The new rich are for the most part

young persons who live on a fairly modest scale and prefer the suburbs. They have accounted for a 40 per cent increase in home ownership since 1937. The 5-day week applies to most workers, except the businessmen who shoulder the responsibility of running their enterprises on an even keel. With greater leisure, workers are spending more time at home. They spend more money on recreation, particularly participation recreation, such as bowling, but they also enjoy staying home to entertain their guests.

Consumer habits show that more money is being spent on do-it-yourself projects. Homeowners buy their own landscape material and plant it themselves. Landscape contractors, for the most part, serve those who are developing large plats or housing projects. Women have become the dominant consumers and influence purchases more than they formerly did.

There has never been a more lucrative market for horticultural products; however, people must be taught or shown that horticultural products are just as essential as new cars or television sets. The market exists if the nurseryman can afford to develop it.

Obtaining Bank Loans

Albert R. Pike, vice-president of the Lake County national bank, Painesville, spoke on "Money: Where To Get It." The best way to analyze the future of a business is to examine its past records to determine what has occurred under similar circumstances. The bank credit investigator uses this method of examination when approached by a businessman for a loan.

Credit is an important asset which must be used wisely, and, if a business expects to borrow money, it must first submit proof of its ability to meet credit obligations on a satisfactory basis. Two general classifications of loans were discussed by Mr. Pike: the secured loan, with assets that can be sold in the event the loan is not repaid, and collateral loans, which are guaranteed by securities such as stocks, bonds, documents or commodities.

"Money: Getting More of It" was the subject of Donald Allen's discus-

sion. Mr. Allen is an account executive with an advertising agency in Cleveland. It is the nursery industry's job to make nursery stock as important to the consumer as the electrical appliances which he may be purchasing for his home or the car which may be considered before any thought is given to the purchasing of horticultural products for home beautification. With effective advertising at the proper season, this can be achieved.

The importance of nursery products in making a house a home should be called to the attention of contractors, architects and builders, particularly those developing large plats. As house building becomes more competitive and contractors look for new ways to sell, the inclusion of landscaping in the cost of the home becomes more likely, but nurserymen must sell builders the idea. This is primarily a job for an association of nurserymen, but there is nothing wrong with the individual nurseryman promoting such a project.

Background for Advertising

Four prerequisites of effective advertising were outlined by Mr. Allen as follows: (1) A clearly defined objective for the advertising campaign. Consideration must be given to the item, amount of stock available, the market, and the clientele to whom the appeal is to be directed. (2) Satisfactory consumer relations. Salespersons should be thoroughly familiar with their merchandise. The consumer is looking to them for advice and information. He wants to know what type of material should be planted in his yard and how it should be used for effective landscaping. (3) An adequate budget is required in order to make the advertising program function. (4) Professional help should be hired to carry out the advertising campaign.

J. Arthur Thomson, manager of the Painesville credit bureau, concluded the morning session with the subject, "Money: Getting What Is Yours." He outlined several practices which can prove most helpful to the business man in handling his customers' charge accounts. It is essential that a business establish credit terms and that the policy be explained to customers—orally if possible. Terms should be printed on all credit blanks, particularly above the space where the applicant signs. They should also appear on statements and credit notices.

Thorough investigation should precede the opening of accounts. Cur-

[Continued on page 70]

Propagating Dogwood by Cuttings

By L. J. Enright

Department of Horticulture, University of Maryland, College Park, Md.

It is a generally accepted fact that it is difficult to propagate many of the woody ornamental plants by means of cuttings. The dogwoods, both the white and the pink types, are included in this group of difficult plants. In the past, several workers have attempted to devise a method of inducing rooting in dogwood cuttings by a system of treatment that would make the undertaking economically feasible for the commercial nurseryman. Reports have been made from time to time on several techniques, but, in general, the percentage of cuttings successfully rooted has been rather small.

A great number of these difficult plants have been subjects of experimentation during the past few years. Recently one or two techniques have been devised successfully to root cuttings from ornamental plants heretofore considered virtually impossible to root. Because of the response of some woody plants to these treatments, it was felt that an experiment should be conducted to determine the response of *Cornus florida* to such treatments.

Time of Making Cuttings

Since it is an accepted fact among propagators that the proper time for taking cuttings varies among woody ornamentals, cuttings were made every four weeks for a period of one year in an attempt to determine the season, or seasons, when such a treatment would be most beneficial. At approximately four-week intervals,

from January through December, the cuttings were collected from selected parent trees. Two trees were used throughout the test to avoid any genetic differences in the material. Each of the stock plants was approximately 15 years old. Once taken, the cuttings were kept moist until they were prepared in the greenhouse, usually within two or three hours after their collection.

Cuttings were taken from the lower branches of the trees. These cuttings were made approximately six inches long. A straight basal cut was made immediately below a node and a thin strip of wood two inches long was removed from two sides of the base. Then, the cuttings were dipped into concentrated solutions of indolebutyric acid for periods of 10 seconds' duration. The indolebutyric acid solutions were prepared by dissolving the acid crystals in a small amount of ethyl alcohol and then adding enough distilled water to reach the desired concentrations. Concentrations of 5,000 parts per million, 10,000 ppm and 20,000 ppm of indolebutyric acid were used for the treatments.

Given Mist Treatment

After the cuttings were prepared, they were inserted in a well-drained, sand-filled greenhouse bench under an intermittent mist system. The water nozzles were set upright at regular intervals and were timed to provide a spray of water for 8-second intervals every 10 minutes from sun-

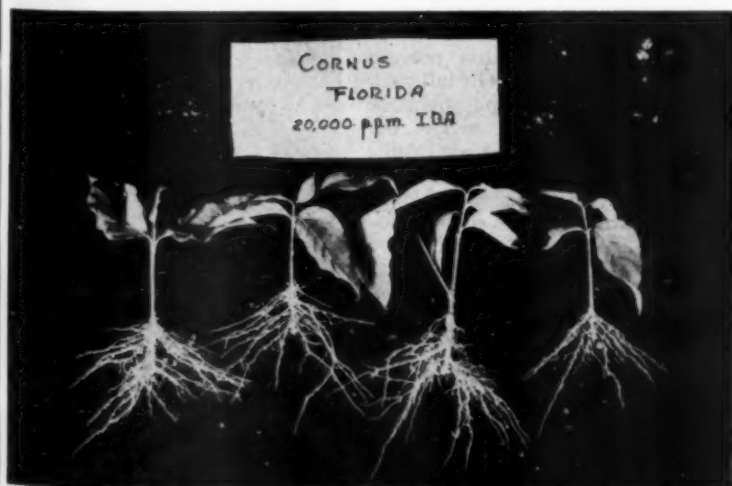
Table 1. The rooting response of *Cornus florida* to indolebutyric acid as expressed by the number of days required for rooting and the percentage of rooting (50 cuttings per treatment).

Treatment	Date Made	Days to root	Per cent rooted
Check	Feb. 6	—	0
5,000 ppm		—	0
10,000 ppm		—	0
20,000 ppm		43	8
Check	Mar. 11	—	0
5,000 ppm		45	4
10,000 ppm		45	28
20,000 ppm		45	76
Check	Apr. 7	52	2
5,000 ppm		52	12
10,000 ppm		52	72
20,000 ppm		52	100
Check	May 5	—	0
5,000 ppm		41	24
10,000 ppm		41	88
20,000 ppm		41	100
Check	June 1	—	0
5,000 ppm		39	8
10,000 ppm		39	56
20,000 ppm		39	100
Check	July 2	—	0
5,000 ppm		—	0
10,000 ppm		47	56
20,000 ppm		47	100
Check	Aug. 6	—	0
5,000 ppm		—	0
10,000 ppm		46	36
20,000 ppm		46	96
Check	Sept. 9	—	0
5,000 ppm		—	0
10,000 ppm		—	0
20,000 ppm		71	8

rise to sunset. No shade was provided.

After a 3-week interval had elapsed from the time of inserting the cuttings, they were examined every week for evidence of root development. As is indicated in table 1, it was possible to root cuttings taken in February, March, April, May, June, July, August and September. The periods for rooting varied from 39 to 67 days. With the 20,000 ppm indolebutyric acid treatments, it was possible to get 100 per cent rooting with cuttings taken in April, May, June and July. The cuttings made in August and treated with the same concentration rooted 96 per cent. These cuttings had approximately 15 to 20 roots, and they averaged four inches in length. As the concentrations of the chemical treatments were reduced, the number of rooted cuttings was correspondingly lowered. Those cuttings treated with the 10,000 ppm indolebutyric acid dip generally had 10 to 14 roots of approximately 1½ inches length. When

[Continued on page 95]



Typical Dogwood Cuttings Rooted with 20,000 ppm Indolebutyric Acid Solution

Tips for Better Landscapes

Plants with Heart-Shaped Leaves

Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

There are several plants that come to mind when shrubs and trees with heart-shaped leaves are mentioned. The katsura tree (*cercidiphyllum*) and the winter hazels (*corylopsis*) should be near the top of the list because of their many admirable qualities. Few trees and shrubs present foliage as fresh and interesting as do these plants.

The katsura tree is better known than the winter hazels to most gardeners. It produces either staminate (male) or pistillate (female) flowers — not both on the same plant — from axillary buds before the new spring leaves. The flowers are rather small and probably remain unnoticed by most persons.

There is a reddish coloration to the anthers of the staminate flowers and a purplish appearance to the styles of the pistillate flowers. Actually, the somewhat primitive flower parts are not truly such if we compare them with the highly developed flowers of more recent plants. The clusters of podlike fruits on the pistillate trees are about an inch long, each one bearing many seeds. There seems to be some doubt as to when *Cercidiphyllum japonicum* was introduced into cultivation. It is recorded as early as 1865 and as late as 1878.

This tree of Japanese origin ordi-



Illustration A—*Cercidiphyllum japonicum* has a narrow form during its early years, which adapts it to the nursery row, as well as to a variety of home plantings.

narly does not exceed 30 to 40 feet in the American landscape, but in Japan it may reach nearly 100 feet. It has the tendency to produce several basal stems or a short main trunk that branches into many stems. During the katsura tree's early years the branching is quite upright, as is shown in illustration A. In a nursery row, the tree is often only three and a half to four feet wide, even though the height is nearly eight feet.

The female tree develops into a broader form than the male and may spread as much as 30 feet, while the narrower male tree may only spread 15 to 20 feet at the same age. The circumference, taken at a height of two feet above the ground, around all the stems, may be nearly 12 feet in some instances.

There is a Chinese variety (*Cercidiphyllum japonicum sinense*) that produces a main trunk more consistently. But it does not seem to be readily available in the American nursery trade. It grows to a greater height than its Japanese relative.

The rounded, broad ovate or narrow heart-shaped leaves are the most attractive part of the tree. They are placed opposite one another on the branch but appear on some tree branches as subopposite or staggered. The leaf margin has many small scallops. In early spring, the new leaves are a soft green, with rust to pink edges. The underside is much lighter than the top surface, as can be seen in illustration B. The spring foliage has a soft freshness that prevails throughout the season. The fall color varies considerably and may be carmine rose, scarlet or yellow, but yellow tones are most usual. During dry summer weather, if water is not liberally applied, the foliage may fade toward these fall colors.

Leaves Borne on Old Stems

Another interesting characteristic of this tree is that it produces leaves on old stems, even toward the center of the tree. Such is not true of most other trees. Those with stems older than 2 years are generally without inner leaves, but *cercidiphyllum* sometimes sets leaves on wood that is 4 and 5 years old.

The leaves appear from little curved spurs on older stems and from

less distinct spurs on younger stems. Usually one leaf develops to a spur.

The name *cercidiphyllum* is derived from *cercis* (redbud) and *phylum* (leaves) and indicates that the plant has leaves like those of the redbud. By looking at illustration B one can see the similarity—and the differences. The redbud leaf has an entire margin as compared to the scalloped edge of the katsura leaf.

The younger stems of *cercidiphyllum*, unlike those of the redbud, show distinct lenticels that slightly resemble those of the birch. The bark of the katsura tree, pictured in illustration C, matures from a dark gray, almost black, to a light gray and becomes loose as it matures. The bark of the American redbud retains its dark appearance and becomes loose only on the main trunk of older trees.

The buds on *cercidiphyllum* are unusual, having two red scales and being slightly curved. When appearing from spurs of 3 or 4-year stems they look like a bird's beak and often hook toward the stem, as do the buds depicted in illustration E. These spurs are dark gray with distinct, ridged rings that are the scars left by the petioles of former leaves. The buds at the terminal ends of the stems are also red and generally appear in pairs, as is indicated in illustration F.

This tree, which is quite free of



Illustration B—The leaves of the katsura tree are a clean fresh green, with light undersides.



Illustration C—The bark on the trunk and branches of older specimens of *Cercidiphyllum* is light gray and rough.

most insects and diseases, prefers a soil high in organic matter, so that it may have a ready supply of water in case summer rains are insufficient. Occasional but thorough watering may be necessary during a dry period. Good drainage should also be provided at planting time.

Landscape Use

It is doubtful that this tree should be used where it will receive little attention once it is planted, but where good maintenance is provided, it can enliven the public building or garden. It has proved hardy in northern areas, even where temperatures dip to zero and below.

This tree is not a strong feeder; so when it is used with such fibrous-rooted plants as azaleas or yews, it should be given a regular supply of plant food. *Cercidiphyllum* combines well with many plants but not with

those that have exceedingly large leaves or strongly contrasting forms. Such competition for interest does not make for a pleasing and restful landscape.

If one can call trees or plants regal, then the katsura tree should certainly be in this category. It has a refinement that many plants do not attain. Even when used in conjunction with a shrub border or a garden, it adds a quiet attractiveness to its surroundings. Grass has no difficulty growing beneath the branches, since they do not cast deep shade, nor does the tree have objectionable competitive roots.

Cercidiphyllum japonicum is not truly a shade tree, because it has an insufficient spread to its branches, but it can block the sun in places where there is not enough room for a broader-spreading tree. It can be used for this purpose for many years, but, like most plants, it may in time become too large for a confined area. The branching habit and form suggest that it can also be used at or near the outer corner of a large home or office building where height is needed. A tree with as many excellent foliage and form qualities as *Cercidiphyllum* rightfully deserves a place in the landscape.

Winter Hazel

A group of deciduous shrubs that provide foliage interest are the corylopsis, winter hazels. They produce heart-shaped leaves in the spring, when the flowers are disappearing. The alternate, prominently veined leaves that usually appear on zig-zag branches are a fresh bluish-green, with lighter undersides. The new leaves have pink to coppery edges that soon disappear, and the clean leaves then add their fresh green col-



Illustration D—The soft yellow flowers of corylopsis are not only attractive, but pleasantly fragrant.

or to the landscape. There is not a heavy concentration of foliage, but such is not necessary for quality foliage. The fall color is a clear yellow.

Derivation of Name

The name is derived from *Corylus*, referring to hazel, and *opsis*, which means similar to or a likeness of. Most species originally came from Japan, and one from neighboring China. The earliest introduction to cultivation was in 1862, and the most recent in 1910. Even with this early entry, the winter hazels are not well known to the homeowner, or to many nurserymen.

The flowers are yellow and fragrant and are produced in early spring before the leaves. Since they usually appear before the warm

[Continued on page 24]



Buds on Old Stem
(*Cercidiphyllum*)

Illustration E.



End Shoot
(*Cercidiphyllum*)

Illustration F.



Young Stem
(*Corylopsis*)

Illustration G.

Plants, Plastic Structures, New Hampshire Interests

By Lawrence Dougherty

The New Hampshire Plant Growers Association held its annual meeting at Putnam hall, University of New Hampshire, Durham, on January 15. The new officers, elected at the opening business meeting, are: John Leahy, Jr., Meader's, Dover, president; J. Raymond Hepler, Billy Hepler Seed Co., Durham, vice-president; Merton Bailey, Nashua, vice-president; John Carpenter, Newmarket, vice-president and treasurer, and Lawrence Dougherty, University of New Hampshire, Durham, secretary.

The guest speaker was T. R. Griffin, chief, plastics research division, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. His talk was illustrated with color slides. He told the group about du Pont's new weatherable plastic, Mylar, and its many uses. It is highly resistant to oils and chemicals, remains flexible at low temperatures and withstands light and heat. Greenhouses built for two and three years have performed well. The estimated functional life is five years or more.

Cut Heating Costs

Mr. Griffin indicated that many of the greenhouses built with a double plastic wall saved about 40 per cent on heating costs. In the structures shown, the strips of plastic were fastened lengthwise along the greenhouse and were overlapped. The product is still in the development stage, but volume production will come later. It is now distributed on a consumer acceptance basis by a large mail-order house. The present cost is about 17 cents per square foot for the 5-mil weight. Both Cornell University and the University of Kentucky have plans for plastic greenhouses, and a number of universities have issued publications on them.

One of the interesting new developments in building applications of plastic is that of air-supported structures. A picture was shown of a dome-like plastic storage building about 60 feet across. It does not take an excessively large air-intake fan to support the dome. Several companies are now preparing to go into production of such buildings.

During a round-table discussion on various horticultural subjects, Prof. Gordon Percival explained the

soil-testing service rendered by the University of New Hampshire. Most soil sample reports go to the county agricultural agents. He said it was important for persons requesting a soil test to indicate what crops were to be grown on the soil.

Prof. Elwyn Meader discussed the plant-breeding program of the university, including the development of new vegetable varieties, which is described in a new New Hampshire experiment station bulletin (No. 440), "Breeding New Vegetable Varieties." He also mentioned the New Hampshire (red) raspberry and Success (purple) raspberry. Both are now listed by nurserymen. Many new blueberry seedlings are now under test, but none has yet been named and none is ready for release. Progress is being made on breeding of new early grapes.

Prof. Robert Kennedy spoke on greenhouse problems and gave some recent experimental data on use of lights on certain crops, such as poinsettias and chrysanthemums.

Hardy Rose Varieties

Prof. E. W. Risley discussed hardy roses, mentioning that one of the old varieties, Theresa Bugnet, has proved absolutely hardy. He said that an 85-foot hedge of this variety that was cut back bloomed continuously. He also stated that the chestnut

rose (*Rosa roxburghi*) might be used more for hedge purposes. Professor Risley has a promising new ever-blooming hardy red pillar rose under test, but it is not ready for release.

The new pink lilac, James McFarlane, showed an unusual characteristic in that it bloomed June 10 and again July 29, 1957. This has not occurred with any other variety. It is not known, however, whether this is a reliable characteristic or an occasional phenomenon. Work continues with monardas. The only named variety so far produced in the studies is Granite Pink, but a new purple appears promising. Prof. J. Raymond Hepler discussed boxwood plants. He also spoke of sales of the early varieties of sweet potatoes.

At the business meeting held in the morning, it was announced that active members totalled 164 at the close of 1957 and that annual dues for 1958 are \$5. A new membership directory was made available at the meeting; a new committee on propagation was proposed, and it was decided that publication of the *Plantsman* (six to 12 copies a year) should be continued. Guest speaker at the association's annual banquet was Dr. Hugh Raup, ecologist, Harvard University, Cambridge, who presented an illustrated talk on "Botanical Travels in Honduras."

APPLICATION for permission to excavate her property at 714 Long Ridge road, Stamford, Conn., and to establish a nursery business there was made recently by Mrs. Katherine Gauthier. Mrs. Gauthier plans to operate the nursery in partnership with Joseph Bosilevas, also of Stamford.



Officials of the New Hampshire Plant Growers' Association and speakers at the group's recent annual meeting at Durham, N. H.: Standing, left, T. R. Griffin; right, Philip Woodward, past president; seated, J. Raymond Hepler, vice-president and editor; Lawrence Dougherty, secretary; John Leahy, Jr., president, and John Carpenter, vice-president and treasurer.

Papers Heard at Shade Tree Meeting

By Noel Wysong

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The 13th annual meeting of the Midwestern chapter of the National Shade Tree Conference, held February 19 to 21, at the Hotel La Salle, Chicago, Ill., was the largest in the history of the organization. There were 433 paid registrations; in addition, 33 admission badges were issued without charge to members of the press and representatives of dealers and manufacturers who displayed their products in the commercial exhibit section. Sixteen states were represented in the attendance. The majority of those present hailed from the midwestern region, but a few came from such distant points as New Jersey, Texas and California.

The papers presented during the educational program were interesting and informative; it is a tribute to the ability of the speakers and the sincere desire of the audience for knowledge that the meeting room was filled at every session. Twenty-one manufacturing firms and dealers participated in the commercial exhibit; this display of tools, equipment and materials used in arboricultural work was a feature of the meeting that added materially to its interest and success.

The insect and disease mounts, the wood sections illustrating phases of tree work, the plant specimens and the many other items of interest displayed in the educational exhibit were contributed by Morton Arboretum, Lisle, Ill.; the department of entomology of Purdue University, Lafayette, Ind.; the city forestry department, Chicago, Ill., and the Illinois Natural History Survey, Urbana. Social activities included the annual banquet, with music and entertainment provided by the Phil Levant organization of Chicago, and a visit by the ladies Friday morning to the broadcast of the Don McNeill "Breakfast Club" program.

Officers Elected

The latter part of the second day of the conference was devoted to business matters of the organization and election of officers for the coming year. Officers were elected as follows: President, Marvin Stevens, arborist, Glenview, Ill.; vice-president, Richard J. Campana, associate plant pathologist, Illinois Natural History Survey, Urbana; secretary-treasurer, Noel B. Wysong, chief forester, Cook county forest preserve district, River Forest, Ill.

Elected to the board of governors

for a 2-year term were Kenneth B. Kirk, Shield Shade Tree Specialists, St. Louis, Mo.; Charles W. Warren, director of parks and recreation, Omaha, Neb., and H. A. Morrison, arborist, Wilmette, Ill.

Chosen as alternates on the board of governors for a 1-year term were Marvin E. DeSmidt, DeSmidt Tree Service, Racine, Wis.; William K. Johnson, Badger Tree and Landscape Service, Beloit, Wis.; S. A. Burhenne, Burhenne Shade Tree Service, Robertson, Mo.; C. I. Baker, Chicago park district, Chicago; J. J. Burns, of the Archibald Enoch Price "The Care of Trees," Wheeling, Ill.; Hugh E. Thompson, department of entomology, Kansas State College, Manhattan, and Lawrence D. Torpy, Torpy's Tree Service, Omaha, Neb.

The conference was formally declared in session Wednesday morning by Vice-president Marvin Stevens, who, after explaining that President Frank J. Pipal was absent because of illness, read a welcoming address prepared by Mr. Pipal, which stressed the value of trees to man. An inspirational invocation was given by the Rev. Jan H. Weiss, minister of the Swedenborgian church, Glenview, Ill.

Effect of Sprays on Birds

The first paper on the educational program was presented by James B. DeWitt of the United States Department of the Interior, fish and wildlife service, Patuxent research refuge, Laurel, Md., on the subject, "Birds and Dutch Elm Disease Control." Stating that all of the commonly used insecticides were known to be more or less toxic to man and other vertebrates, Dr. DeWitt said studies of the effect of DDT on birds and other wildlife were started by the fish and wildlife service more than 12 years ago.

Investigations showed, he said, that fish and other aquatic species are highly susceptible to the effect of DDT and that young birds are more susceptible to this chemical compound than adults of the same species. Studies indicated, he said, that DDT and all other chlorinated compounds act as a cumulative poison resulting in depressed growth rates and increased mortality among birds.

Pointing out that these data had been obtained under laboratory con-

ditions, Dr. DeWitt said it was not possible to express such findings in terms of the effects which might be produced by field applications. He emphasized that "no one would want to see our elms join the chestnut as objects of historical, rather than practical, interest, and operations for the control of the Dutch elm disease are amply justified." The problem then becomes one, he said, "of determining steps to be taken to reduce the hazards to bird life."

Much remains to be learned, he commented, concerning insecticides, their effect on wildlife and on the vectors of the Dutch elm disease, and said that at this time only general recommendations could be made. They include: (1) Using the minimum amounts of the insecticide required to kill the vector of the disease; (2) using the insecticide which is least toxic to birds; (3) using equipment that is least conducive to bird injury, and (4) avoiding applications during the migration and nesting seasons.

Questions and Answers

In the discussion period that followed, numerous questions were asked, including the following: (Q.) Is any material other than DDT advocated for use in controlling the vectors of Dutch elm disease? (A.) Methoxychlor has been used and may be effective. If it proves to do a good job of controlling the elm bark beetles, it might be substituted for DDT, since it is considered to be less toxic to bird life.

(Q.) Must birds eat DDT in order to be affected by it, or can they absorb it through their body pores? (A.) DDT may be absorbed; however, drinking from puddles containing DDT, or eating earthworms from contaminated soil areas are more common causes of bird injury. Earthworms appear to be resistant to the effects of DDT; yet they may absorb the chemical in sufficient amounts to cause injury to feeding birds.

(Q.) We frequently hear the expression "a tremendous kill of birds" used in reports of bird deaths in communities sprayed with DDT. Can the word tremendous be translated in terms of actual numbers or percentages of birds affected? (A.) The only method by which DDT

[Continued on page 128]



New officials of the Idaho Association of Nurserymen, with L. C. "Jens" Ihrke, speaker at the association's winter meeting at Boise: Left to right, Robert V. Gates, secretary-treasurer; Mr. Ihrke (left rear); Richard Nadeau, president; E. F. Davis, director; Peter Hamon, vice-president, and Warren Carnifex, Norman Fuller and Sidney Nelson, directors.

Idaho Association Meets And Holds Garden School

By Robert V. Gates

Fine weather encouraged over 225 persons to attend the winter meeting of the Idaho Association of Nurserymen held January 27 and 28 at the Basque Center hall, Boise, Ida. Another factor in the high attendance was the association's ninth annual garden school, open to all home gardeners, which was held in conjunction with the meeting.

At a business session held January 28, the following officers were elected for 1958: Richard Nadeau, Nelson Floral & Nursery, Boise, president; Peter Hamon, King Brown Gardens, Caldwell, vice-president, and Robert V. Gates, Petrie Landscape Nurseries, Boise, secretary-treasurer. Directors for the year are Norman Fuller, Davis Perennial Gardens, Boise; E. F. Davis, Boise; Sidney Nelson, Nelson Floral & Nursery, Boise, and Warren Carnifex, Fruitland Nurseries, Fruitland.

Chairmen for the first day's sessions were Robert V. Gates, Sidney Nelson and Richard Nadeau, who presided over the morning, afternoon and evening sessions, respectively.

After an address of welcome by R. E. Edlefson, mayor of Boise, Mrs. Vera Moyer, Weiser, past president of the Federated Garden Clubs of Idaho, told how to handle exhibition flowers. "Spring-flowering Bulbs" was the subject discussed by Lester McCrackin, Union Farm & Garden Store, Boise. Color illustra-

tions were used for identifying varieties.

Spring and fall colors in trees were illustrated with an excellent selection of color slides by Gordon Bowen, Boise city forester, who also discussed approved varieties and planting distances for street trees. Mr. Bowen urged property owners to have the shrubs and trees on their property sprayed in order to obtain a more complete control over insects and diseases. The city will begin dormant spraying of all street trees as soon as weather permits.

Dr. Richard Foley, assistant horticulturist, University of Idaho branch station, Parma, discussed the services of the station with relation to growers' problems, mentioning experiments in more efficient means of fertilization and studies in disease and insect control.

In the afternoon session, Mrs. Julia Hausch, Roseway Nurseries, Portland, Ore., presented suggestions on selection and culture of roses and, with the assistance of her husband, Henry, showed many color slides of currently popular roses. Some of the slides showed recommended uses of roses in landscaping and the effect of massing plants for color.

Charles Painter, soils specialist of the U. of I. extension service, emphasized the importance of testing a soil before applying fertilizer.

Clark Brown, Crookham Seed Co., Nampa, told of some current experi-

ments with gibberellic acid. California Spray-Chemical Corp., Richmond, Calif., then presented a beautiful color film, "Flowers of Hawaii."

Roses were the theme of the evening session, being the subject of an address by Mrs. Julia Hausch and of a color film by the California Spray-Chemical Corp. Another interesting film, "Flowers of Alaska," was shown.

A program of insect control is essential, Herman Hilfiker, Ada county agent, told the gardeners in the Tuesday morning session. He stressed the importance of identifying the insect first, then combating it with the proper control methods. Blanket control for all insect pests is not possible, because of the variance in the reactions of different pests to insecticides. Repeated sprayings at short intervals are important to complete control of an infestation.

Discussing lawn building, Robert V. Gates stated that the most important detail in the construction of a new lawn is to keep the topsoil separated from the subsoil. In backfilling and grading, one should haul out the subsoil if it is of poor quality. Care should be taken to keep heavy equipment from compacting the soil if it is too wet. Good drainage is as essential to the long life of a lawn as are good seeds and fertilizer.

Robert Higgins, agronomist of the U. of I. extension service, discussed control of weeds in lawns and elsewhere in the yard. Peter Hamon, King Brown Gardens, Caldwell, described some new perennials, discussing propagation, culture, transplanting and effective use in the garden.

L. C. "Jens" Ihrke, Mount Arbor Nurseries, Shenandoah, Ia., speaking Tuesday afternoon, speculated that, if plants could talk, their conversations would be largely about their operations. If they survived, he said, they would talk about how they were butchered or pruned out of the ground. Mr. Ihrke used a series of illustrations to show some results of incorrect and careless handling of trees and shrubs.

Warren Carnifex used a series of color slides to illustrate his discussion of varieties and cultural requirements of tuberous-rooted begonias and primroses. Charles Talbot, Boise, then discussed African violets. The program was concluded by John Jensen, landscape architect, Boise, who showed scenic views of the city of Boise. At the close of the afternoon session on Tuesday, the association held its business meeting and elected the officers named earlier in this report. The meeting was then adjourned.

Bedding Plants, Colorado Course Topic

By W. K. Sonnemann, Jr.

An optimistic view of 1958 business conditions set the atmosphere for the Colorado Nurserymen's and Arborists' short course held on the Colorado State University campus, Fort Collins, February 10 and 11. The session attracted more than 150 delegates from three states. The meeting was sponsored by the Colorado Nurserymen's and Arborists' Association in cooperation with Colorado State University.

A committee of nurserymen and arborists prepared the program. Charles Drage, extension horticulturist, and A. M. Binkley, head of the department of horticulture, were in charge of arrangements on the C. S. U. campus.

New Officers

During a business session, the group elected Cliff Morgan, Williams Garden, Greeley, president; Kenneth G. Wilmore, Green Bowers Nursery, Denver, vice-president, and Stanley E. Brown, Alameda Nursery, Inc., Denver, secretary-treasurer.

Charles L. Weddle, president, Pan American Seeds, Inc., Paonia, Colo., set the optimistic tone of the session in his address, "Boom in Bedding Plants." Noting trends in the business, Mr. Weddle spoke of the growing importance of suburban garden centers and stated that their popularity is due to a change in American culture. A mature economy and culture, he said, can pay more attention to the beautiful things of life. Everyone wants a home where he can have a few petunias and zinnias of his own or a few snapdragons to supply the table with flowers.

The current consumer preference for prepackaged, ready-to-use goods, Mr. Weddle said, is shown in the popularity of bedding plants that are ready to grow and bloom, needing only to be set out. Plants dug out of a flat and wrapped in a newspaper are obsolete. The successful nurseryman must keep up with progress or keep a step ahead. It is always good business to show customers something they cannot have until next year.

Advises Test Plantings

He advised the nurserymen to grow a wide selection of the newest and best varieties. Some of each variety should be planted in a trial garden, where the nurseryman can

study them and make notes as to what to recommend to customers the following year. One should also read advertisements to find which varieties are being best advertised. The most popular plants, according to Mr. Weddle, are petunias, zinnias, ageratums, verbena, salvia and dwarf dahlias.

He said the public is quality-conscious and is willing to pay for quality in a product. It does not cost any more — sometimes it costs less — to grow good plants. Quality in bedding plants means, first of all, that they can be transplanted with a minimum of shock.

While quality plants will do much to sell themselves, certain tricks of sales promotion will help. A good display is fundamental. An older plant in bloom is a good promotion for a plant about to bloom. No one can resist stopping to look at a beautiful display of flowers. A colored plant tag or card is valuable for the self-service type of operation.

Pictures Important

The customer gets much satisfaction from a picture of what he is planting. Also, it helps him visualize how to arrange the planting. In the store, large colored posters are an asset to sales and they make a good addition to a plant display.

Mr. Weddle stressed the importance of local advertising by such media as radio, television and newspapers. He also pointed out the value of free advertising, such as garden columns or television or radio pro-

grams on gardening. Trial gardens in locations where they will attract attention are valuable, too.

Stating that any good business must have a year-round operation in order to pay the rent and overhead, he urged the nurserymen to stock bedding plants for sales during the summer and foliage plants and some blooming pot plants for winter sales.

Urges Consumer Education

Other speakers included Herbert C. Gundell, Denver county agricultural agent, who appealed to nurserymen and arborists to continue and expand their educational program. The purpose is to provide more homeowners with information that will assist them in planning their own landscape. Mr. Gundell, Colorado's only metropolitan county agent, explained a county agent's role in a large city.

James Baxter, of the Industrial savings and loan organization, Denver, spoke on business trends and credit. He stressed the point that Americans live in a credit economy. Accordingly, he suggested that nurserymen make greater use of credit. He encouraged nurserymen to increase their working capital and to consider liberalized consumer credit. Mr. Baxter suggested that nurserymen sell builders and contractors on the plan of including landscaping in their house contracts, just as kitchen utilities are often included.

Participating in a panel discussion, entitled "The Modern Garden Cen-

[Continued on page 74]



New officers elected to head the Colorado Nurserymen's and Arborists' Association: Left to right, Kenneth G. Wilmore, Denver, vice-president; Cliff Morgan, Greeley, president, and Stanley E. Brown, Denver, secretary-treasurer.

Kalamazoo Valley Group Elects and Discusses Clinic

By Roland Hunt

The Kalamazoo Valley Landscape and Nurserymen's Association met February 12 at the Hotel Burdick, Kalamazoo, Mich., for its annual business meeting and election of officers, which was preceded by a dinner. Officers for 1958 were elected as follows: President, Robert Scovie, Inland Orchards, Marshall; vice-president, John Klooster, John Klooster Landscape Service, Richland; secretary, M. L. Craven, Craven's Peat Moss, Kalamazoo, and treasurer, Fred Krill, Prudential Nursery, Vicksburg.

Harley Wedel, Sr., Wedel's Nursery & Garden Center, Kalamazoo, and Dwight Hitchcock, Light's Tree Co., Richland, were named directors for a 2-year term and a 1-year term, respectively. Automatically becoming a member of the board of directors was the immediate past president, William Deary, Deary's Landscape Service, Galesburg. The entire membership of the K. V. L. N. A. as of 1957 was accepted into the Michigan Association of Nurserymen as an affiliated group, charter member.

Plans were discussed for the home garden landscape clinic, which was to be held March 12 and 13 in the County Center building, Recreation park, Kalamazoo. It was reported that approximately 15 association members were planning to exhibit at the clinic and that the K. V. L. N. A. had been given the responsibility of decorating the exhibit halls and entrances.

Most of the discussion centered around the prizes to be offered the public by the association. It was finally agreed that the first prize should be a gift certificate for \$50 worth of services or materials from any member nursery the winner might select and the second prize, a similar certificate for \$25. The group also approved a plan whereby each member was to provide two daily prizes with a value of approximately \$2 each.

FLORIDA FREEZE REPORTS

Direct reports that have been received on the freeze damage to nursery stock in Florida augment the statements appearing widely in newspaper accounts of the severe winter in the southeast part of the country. The early damage occurred in December, but, as in so many other parts of the country, abnormally cold weather also featured the late winter weeks in the south and gave large areas in Florida sub-freezing night temperatures in January and February and almost equally cold days.

James F. Griffin, Jr., Key Biscayne, executive-secretary of the Florida Nurserymen and Growers Association, sends the following information on conditions:

"The recent series of freezes beginning December 13 in the state of Florida has proved to be one of the most devastating in the state's history. Since the writing of this report

comes immediately upon the heels of one of the most severe of the season's cold spells, it is impossible to provide absolutely accurate figures on the losses sustained by the nursery industry of this state. Needless to say, the \$10,000,000 loss experienced by Florida's cut flower industry will be exceeded by several million dollars.

"Reliable sources indicate that a final tabulation of damage to the nursery industry of Florida will show the winter of 1957-58 to be the worst in the entire history of the state.

"Statistics compiled show that up to February, 20 per cent of the foliage plants was a total loss and another 40 per cent was damaged so severely that the plants must be completely regrown; 85 per cent of the cut ferns used in the florists' trade was a total loss and 12 per cent of the remainder severely damaged. Of the so-called ornamentals, there was a 15 to 20 per cent loss, with another 35 per cent damaged so severely that regrowing is necessary prior to marketing.

"Even the northern portion of the state, normally devoted to the growing of hardier plant material, was severely hurt because of the exceptionally subnormal temperature.

"Thirty-eight of the state's 67 counties have been declared disaster areas, thereby making low-interest rate government funds available to those needing them.

"Many of the growers have been able to protect their plant material through the numerous freezes; therefore plant sales have continued, even though greatly reduced. The growers having greenhouses, of course, have suffered little, if any, damage and are continuing operations as usual.

"The extreme southern portion of the state, while experiencing some

[Continued on page 94]



Officers elected at a recent meeting of the Kalamazoo Valley Landscape and Nursery Association at Kalamazoo, Mich.: Left to right, John Klooster, vice-president; M. L. Craven, secretary; Robert Scovie, president; Fred Krill, treasurer, and William Deary and Harley Wedel, Sr., directors.

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MARCH 15, 1958

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End-o-Pest Garden Dust
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<i>Acer palmatum dissectum atropurpureum</i>	7.50	65.00
<i>Acer rubrum columnare</i>	7.50	65.00
<i>Acer saccharum monumentale</i>	7.50	65.00
<i>Cedrus atlantica glauca</i>	7.50	65.00
<i>Cornus florida alba plena</i>	6.50	55.00
<i>Cornus florida rubra</i>	6.50	55.00
<i>Cornus florida rubra Prosser</i>	7.50	65.00
<i>Cornus kousa chinensis</i>	6.50	55.00
<i>Fagus sylvatica riversi</i>	6.50	55.00
<i>Ilex opaca femina</i>	7.50	65.00
Arden	Judge Brown	
Boyce Thompson No. 3	Lake City	
Cheerful	Mae	
Christmas Tide	Manig	
Delia Bradley	Miss Helen	
Farage	Osa	
Hookstraw (Old Heavy Berry)	Richards	
Joyce		
<i>Ilex opaca mascula</i>	7.50	65.00
<i>Ilex opaca mascula Judge Brown No. 9</i>	7.50	65.00
<i>Juniperus chinensis columnaris glauca</i>	6.50	55.00
<i>Juniperus chinensis columnaris viridis</i>	6.50	55.00
<i>Juniperus chinensis keteleeri</i>	6.50	55.00
<i>Juniperus chinensis neoboriensis</i>	6.50	55.00
<i>Juniperus chinensis sargentii</i>	6.50	55.00
<i>Juniperus chinensis sargentii glauca</i>	6.50	55.00
<i>Juniperus sabina vonehron</i>	6.50	55.00
<i>Juniperus squamata meyeri</i>	6.50	55.00
<i>Juniperus virginiana burki</i>	6.50	55.00
<i>Juniperus virginiana canaerti</i>	6.50	55.00
<i>Juniperus virginiana elegantissima</i>	6.50	55.00
<i>Juniperus virginiana glauca</i>	6.50	55.00
<i>Juniperus virginiana globosa</i>	6.50	55.00
<i>Juniperus virginiana kosteriana</i>	6.50	55.00
<i>Juniperus virginiana schottii</i>	6.50	55.00
<i>Juniperus virginiana pyramidalis hilli</i>	6.50	55.00
<i>Magnolia rustica rubra</i>	7.50	65.00
<i>Magnolia soulangeana</i>	7.50	65.00
<i>Magnolia soulangeana nigra</i>	7.50	65.00
<i>Magnolia stellata</i>	7.50	65.00
<i>Magnolia stellata rubra</i>	7.50	65.00
<i>Magnolia stellata Water Lily</i>	7.50	65.00
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<i>Thuja occidentalis douglasii spiralis</i>	5.50	45.00
<i>Thuja occidentalis elegantissima</i>	5.50	45.00
<i>Thuja occidentalis lutea Mary Corey</i>	5.50	45.00
<i>Thuja occidentalis lutea Geo. Peabody</i>	5.50	45.00
<i>Thuja occidentalis nigra</i>	5.50	45.00
<i>Thuja occidentalis pyramidalis</i>	5.50	45.00
<i>Thuja occidentalis rosenthalii</i>	5.50	45.00
<i>Thuja occidentalis wareana (sibirica)</i>	5.50	45.00
<i>Thuja orientalis aurea nana</i>	5.50	45.00
<i>Thuja orientalis conspicua</i>	5.50	45.00
<i>Thuja orientalis elegantissima</i>	5.50	45.00
<i>Tsuga canadensis pendula</i>	6.50	55.00

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COMING EVENTS

MEETING CALENDAR

April 10 and 11 — Holly Society of America, annual meeting, University of Delaware, Newark, Del.

May 21 to 24 — Western chapter, National Shade Tree Conference, Disneyland hotel, Anaheim, Calif.

May 22 to 24 — Florida Nurserymen and Growers Association, annual convention, Golden Gate hotel, Miami Beach, Fla.

May 26 to 28 — Short course for Texas nurserymen, Agricultural and Mechanical College of Texas, Memorial Student Center, College Station, Tex.

June 1 to 3 — Alabama Nurserymen's Association, annual convention, Hotel Stafford, Tuscaloosa, Ala.

June 4 and 5 — California Association of Nurserymen, annual refresher course, California State Polytechnic College, San Luis Obispo, Calif.

June 8 to 10 — Georgia State Nurserymen's Association, annual convention, Bon Air hotel, Augusta, Ga.

June 18 and 19 — Missouri State Nurserymen's Association, annual meeting and short course, University of Missouri, Columbia, Mo.

June 25 and 26 — Illinois State Nurserymen's Association, short course, Morton Arboretum, Lisle, Ill.

July 19 to 24 — American Association of Nurserymen, annual convention, Statler-Hilton hotel, Dallas, Tex.

August 25 to 29 — National Shade Tree Conference, Vanderbilt hotel, Asheville, N. C.

FLORIDA CONVENTION

The Golden Gate hotel, Miami Beach, Fla., will again be the site of the annual convention of the Florida Nurserymen and Growers Association. The convention is scheduled for May 22 to 24, according to James F. Griffin, Jr., executive secretary.

PLANS FOR ALABAMA

The annual convention of the Alabama Nurserymen's Association will take place June 1 to 3 at the Hotel Stafford, Tuscaloosa, Ala., according to Henry P. Orr, secretary-treasurer. William Barton, Guthrie-Barton Nursery Co., Tuscaloosa, is in charge of exhibition space.

INTERNATIONAL CONGRESS

A recent announcement on development of plans for the 15th International Horticultural Congress, to be held April 11 to 18 at Nice, France, indicates that symposiums will be conducted during the congress as follows: "New Growth and Flower-Inducing Substances," April [Concluded on page 24]

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| • | Grande Duchesse Charlotte |
| • | Helen Traubel |
| • | Lemon Chiffon |
| • | Living Rose |
| • | Lowell Thomas |
| • | Mirandy |
| • | New Yorker |
| • | Nocturne |
| • | Peace |
| • | Pink Favorite |
| • | Queen Elizabeth |
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| • | Sutter's Gold |
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- Autumn
- Christopher Stone
- Condese de Sastago
- Countess Vandal
- Crimson Glory
- Duquesa de Penaranda
- Eclipse
- Editor McFarland
- Ena Harkness
- Etoile de Hollande
- Frau K. Druschki
- Girona
- Golden Rapture
- Heinrich Wendland
- Joanna Hill
- K. A. Viktoria
- Lulu
- Margaret McGredy
- Mme. Ed. Herriot
- Mme. Jules Bouche
- Mrs. Charles Bell
- Mrs. E. P. Thom

Nonpatented Hybrid Teas— Continued

- | Grade
1 1/2 | Variety |
|----------------|---------------------|
| • | Mrs. P. S. du Pont |
| • | McGredy's Ivory |
| • | McGredy's Scarlet |
| • | McGredy's Yellow |
| • | Nigger Boy |
| • | Picture |
| • | Pink Dawn |
| • | Poinsettia |
| • | President Hoover |
| • | Radiance |
| • | Red Hoover |
| • | Red Radiance |
| • | Red Talisman |
| • | Shining Star |
| • | Signora |
| • | Sister Therese |
| • | Snowbird |
| • | Souv. de Cl. Pernet |
| • | Talisman |
| • | Texas Centennial |
| • | The Doctor |
| • | Virgo |
| • | Will Rogers |

Nonpatented Babies

- Dick Koster
- Gloria Mundi
- Orange Triumph

Nonpatented Floribundas

- | Grade
1 1/2 | Variety |
|----------------|--------------------|
| • | Charlie McCarthy |
| • | Donald Prior |
| • | Eise Poulsen |
| • | Eutin |
| • | Floradora |
| • | Frensham |
| • | Garnette |
| • | Improved Lafayette |
| • | Poulsen's Bedder |
| • | Red Ripples |
| • | Rose Elfe |
| • | Snowbank |
| • | The Fairy |

Nonpatented Climbers

- Cl. American Beauty
- Cl. City of York
- Cl. Doubleblooms
- Cl. Etoile de Hollande
- Cl. Gardenia
- Cl. Mary Wallace
- Cl. New Blaze
- Cl. Paul's Lemon Pillar
- Cl. Silver Moon
- Cl. Talisman
- Cl. Temptation
- Cl. White Dawn

**EASTERN NURSERYMEN: Contact Frank
C. Donovan, 130 E. 233rd Street, Euclid, Ohio.**



PETERSON & DERING

ROSE GROWERS • SCAPPOOSE, OREGON

TELEPHONE LINDEN 3-6323



CARTWRIGHT NURSERY

COLLIERVILLE, TENN.

Phone: Ulysses 3-23

SPRING, 1958

All nursery stock is sold F.O.B. Collierville, Tenn.; however, we will, if desired, arrange for delivery of stock to purchaser. We have access to a large fleet of refrigerator trucks, which can be hired on a mileage basis, so as to provide very economical and safe transportation. In any event stock travels at the risk of the purchaser.

Our stock is individually graded and tagged by a competent superintendent before it is dug and is graded and handled as carefully as possible to insure delivery to you of top-quality stock in good condition. Claims made within 10 days of receipt of stock will receive careful consideration. Our grades are at least up to American Association standards and are often better. Come to the nursery and see our stock in the fields.

All prices are subject to change without notice and all prices are based on truck-load or carload quantities.

Stock marked with *(asterisk) sold out for this season.

CONIFERS

All of our Junipers are many times sheared, none of them less than eight times, and many of our arborvitae are also sheared. This stock is of specimen quality and guaranteed to please.

Arborvitae, orientalis Baker

24 to 30 ins.	\$1.00
*30 to 36 ins.	1.40
3 to 4 ft.	2.00

Arborvitae, orientalis Berkman's (Berkman's Dwarf Golden)

12 to 15 ins.	1.00
15 to 18 ins.	1.25
18 to 24 ins.	1.60
*24 to 30 ins.	2.00

Arborvitae, orientalis Blue Cone

*18 to 24 ins.	1.00
*24 to 30 ins.	1.35
*30 to 36 ins.	1.60
3 to 4 ft.	2.20

Arborvitae, orientalis Bonita

15 to 18 ins.	1.25
18 to 24 ins.	1.60
24 to 30 ins.	2.00
30 to 36 ins.	2.50

Arborvitae, orientalis Excelsa

*30 to 36 ins.	1.50
3 to 4 ft.	2.00
*4 to 5 ft.	3.00
*5 to 6 ft.	4.00

Arborvitae, orientalis fruitlandi (Dark Green Berkman's)

18 to 24 ins.	1.50
24 to 30 ins.	1.75
30 to 36 ins.	2.25

Arborvitae, orientalis newarkii

*24 to 30 ins.	1.25
*30 to 36 ins.	1.50
*3 to 4 ft.	2.00
*4 to 5 ft.	3.00
*5 to 6 ft.	4.00

Arborvitae, American Dark Green

24 to 30 ins.	1.50
30 to 36 ins.	2.25
3 to 4 ft.	3.00
4 to 5 ft.	3.75

Arborvitae, American Pyramidal

24 to 30 ins.	1.50
3 to 4 ft.	3.00
4 to 5 ft.	3.75

Arborvitae, American compacta erecta globosa

18 to 24 ins.	\$1.75
24 to 30 ins.	2.25

Arborvitae, American Globe (globosa)

12 to 15 ins.	1.25
15 to 18 ins.	1.60
18 to 24 ins.	2.00
*24 to 30 ins.	2.50

Cedrus atlantica

*2 to 3 ft.	1.50
*3 to 4 ft.	2.50

Cedrus deodara

*2 to 3 ft.	1.50
*3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00

Cypress, Blue Lawson

30 to 36 ins.	1.75
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Chamaecyparis Cyane Viridis

18 to 24 ins.	1.25
24 to 30 ins.	1.75
30 to 36 ins.	2.00

Juniper, Andorra

15 to 18 ins.	1.20
18 to 24 ins.	1.60

Juniper, hetzi glauca

15 to 18 ins.	1.25
18 to 24 ins.	1.75
24 to 30 ins.	2.25

Juniper, chinensis pfitzeriana

Many times sheared, very heavy	
12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
30 to 36 ins.	3.50

Juniper, pfitzeriana Blue

15 to 18 ins.	1.50
18 to 24 ins.	2.00

Juniper, pfitzeriana compacta

12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
*30 to 36 ins.	3.50

Juniper, pfitzeriana Golden

*15 to 18 ins.	1.50
*18 to 24 ins.	2.00

We have 850,000 B&B greens ready for market season in our 1500-acre nursery.

Juniper, pfitzeriana nana (Armstrong's)
12 to 15 ins.
15 to 18 ins.
18 to 24 ins.
24 to 30 ins.

Juniper, densa glauca

2 to 3 ft.	
3 to 4 ft.	

Juniper, excelsa stricta

15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	

Juniper, fastigiata

24 to 30 ins.	
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Juniper, virginiana repandens

15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	

Juniper, sabina

12 to 15 ins.	
15 to 18 ins.	
18 to 24 ins.	

Juniper, sabina vanehron

15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	

Juniper, scopulorum kenyoni

*18 to 24 ins.	
*24 to 30 ins.	
*30 to 36 ins.	

Juniper, sylvestris

*2 to 3 ft.	
*3 to 4 ft.	
4 to 5 ft.	

Juniper, virginalis

15 to 18 ins.	
18 to 24 ins.	
*24 to 30 ins.	

Juniper, virginiana burki, well-sheared

*2 to 3 ft.	
-------------	--

Juniper, virginiana canescens, well-sheared

2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
*5 to 6 ft.	

Juniper, virginiana glauca

*2 to 3 ft.	
3 to 4 ft.	

Pinus nigra (Austrian Pine)

2 to 3 ft.	
*3 to 4 ft.	

Pinus strobus (White Pine)

2 to 3 ft.	
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BROAD-LEAVED EVERGREENS

Broad-leaved evergreens are well-specified stock. Most of them many sheared, and the quality is guaranteed as you.

<i>grandiflora</i>	1.00
3 ft.	1.25
4 ft.	1.50
5 ft.	1.75
6 ft.	2.00
7 ft.	2.25
8 ft.	2.50
9 ft.	2.75
10 ft.	3.00
11 ft.	3.25
12 ft.	3.50
13 ft.	3.75
14 ft.	4.00
15 ft.	4.25
16 ft.	4.50
17 ft.	4.75
18 ft.	5.00
19 ft.	5.25
20 ft.	5.50
21 ft.	5.75
22 ft.	6.00
23 ft.	6.25
24 ft.	6.50
25 ft.	6.75
26 ft.	7.00
27 ft.	7.25
28 ft.	7.50
29 ft.	7.75
30 ft.	8.00
31 ft.	8.25
32 ft.	8.50
33 ft.	8.75
34 ft.	9.00
35 ft.	9.25
36 ft.	9.50
37 ft.	9.75
38 ft.	10.00
39 ft.	10.25
40 ft.	10.50
41 ft.	10.75
42 ft.	11.00
43 ft.	11.25
44 ft.	11.50
45 ft.	11.75
46 ft.	12.00
47 ft.	12.25
48 ft.	12.50
49 ft.	12.75
50 ft.	13.00
51 ft.	13.25
52 ft.	13.50
53 ft.	13.75
54 ft.	14.00
55 ft.	14.25
56 ft.	14.50
57 ft.	14.75
58 ft.	15.00
59 ft.	15.25
60 ft.	15.50
61 ft.	15.75
62 ft.	16.00
63 ft.	16.25
64 ft.	16.50
65 ft.	16.75
66 ft.	17.00
67 ft.	17.25
68 ft.	17.50
69 ft.	17.75
70 ft.	18.00
71 ft.	18.25
72 ft.	18.50
73 ft.	18.75
74 ft.	19.00
75 ft.	19.25
76 ft.	19.50
77 ft.	19.75
78 ft.	20.00
79 ft.	20.25
80 ft.	20.50
81 ft.	20.75
82 ft.	21.00
83 ft.	21.25
84 ft.	21.50
85 ft.	21.75
86 ft.	22.00
87 ft.	22.25
88 ft.	22.50
89 ft.	22.75
90 ft.	23.00
91 ft.	23.25
92 ft.	23.50
93 ft.	23.75
94 ft.	24.00
95 ft.	24.25
96 ft.	24.50
97 ft.	24.75
98 ft.	25.00
99 ft.	25.25
100 ft.	25.50

<i>Ilex opaca</i> howardi	32.00
2 to 3 ft.	3.00
3 to 4 ft.	4.00
4 to 5 ft.	5.00
5 to 6 ft.	6.00
<i>Ilex opaca</i> Hume No. 2	2.00
2 to 3 ft.	3.00
3 to 4 ft.	4.00
4 to 5 ft.	5.00
5 to 6 ft.	6.00
<i>Ilex opaca</i> Reynolds	2.00
2 to 3 ft.	3.00
3 to 4 ft.	4.00
<i>Ilex vomitoria</i> , well-sheared, very good	1.00
15 to 24 ins.	1.50
24 to 30 ins.	2.00
30 to 36 ins.	2.50
3 to 4 ft.	3.00
4 to 5 ft.	3.50
5 to 6 ft.	4.00
<i>Ilex vomitoria</i> nana, very dwarf type	1.25
12 to 15 ins.	1.50
<i>Ilex vomitoria</i> Pride of Houston, heavily sheared	1.00
18 to 24 ins.	1.50
24 to 30 ins.	2.00
30 to 36 ins.	2.50
3 to 4 ft.	3.00
4 to 5 ft.	3.50
<i>Illicium anisatum</i>	1.25
2 to 3 ft.	1.50
<i>Jasminum floridum</i>	1.00
15 to 18 ins.	1.25
18 to 24 ins.	1.50
24 to 30 ins.	1.75
<i>Ligustrum lucidum</i> (Black Wax)	1.00
*24 to 30 ins.	1.25
*30 to 36 ins.	1.50
<i>Ligustrum lucidum</i> , Griffin type	1.00
24 to 30 ins.	1.25
30 to 36 ins.	1.50
<i>Ligustrum lucidum</i> (Suwannee River)	1.75
15 to 18 ins.	2.25
18 to 24 ins.	2.75
24 to 30 ins.	3.25
<i>Laurocerasus caroliniana</i> (Cherry Laurel), heavily sheared	1.25
2 to 3 ft.	1.50
3 to 4 ft.	2.00
4 to 5 ft.	2.50
5 to 6 ft.	3.00
6 to 8 ft.	3.50
<i>Loropetalum chinense</i> (Texas Fringe)	1.25
18 to 24 ins.	1.50
24 to 30 ins.	1.75
30 to 36 ins.	2.00
<i>Magnolia grandiflora</i>	2.00
2 to 3 ft.	3.00
3 to 4 ft.	4.00
4 to 5 ft.	5.00
5 to 6 ft.	6.00
6 to 8 ft.	7.50
<i>Magnolia glauca</i>	1.50
2 to 3 ft.	2.50
3 to 4 ft.	3.50
4 to 5 ft.	4.50
5 to 6 ft.	5.50
6 to 8 ft.	7.50
<i>Nandina domestica</i>	.80
15 to 18 ins.	1.00
18 to 24 ins.	1.25
24 to 30 ins.	1.50
30 to 36 ins.	1.75
3 to 4 ft.	2.00
<i>Osmanthus fortunei</i>	1.25
*18 to 24 ins.	1.50
24 to 30 ins.	1.75
<i>Viburnum burkwoodii</i>	1.50
18 to 24 ins.	1.75
24 to 30 ins.	2.00
30 to 36 ins.	2.25

LINING-OUT STOCK

Liners—Potted

* <i>Chamaecyparis Cyano Viridis</i> , 3-in. pot	\$0.12 1/2
<i>Elaeagnus simoni</i> , 3-in. pot	.12 1/2
<i>Ilex fosteri</i> No. 2, 2 1/2-in. rose pot	.17 1/2
<i>Illicium anisatum</i> (Spring), 2 1/2-in. pot	.12 1/2
<i>Ilex crenata convexa</i> , 2 1/2-in. rose pot	.15
<i>Ilex crenata repandens</i> , 2 1/2-in. rose pot	.15
<i>Ilex opaca East Palatka</i> , 2 1/2-in. rose pot	.17 1/2
<i>Ilex opaca howardi</i> , 2 1/2-in. rose pot	.17 1/2
<i>Ilex opaca Hume No. 2</i> , 2 1/2-in. rose pot	.17 1/2
<i>Ilex vomitoria femina</i> , 2 1/2-in. rose pot	.12 1/2
<i>Ilex vomitoria</i> Pride of Houston, 2 1/2-in. rose pot	.12 1/2
<i>Laurocerasus caroliniana</i> , 2 1/2-in. pot	.12 1/2
<i>Lonicera yunnanensis</i> , ready for cans, 4-in. pot	.17 1/2
<i>Nandina domestica</i> , 2 1/2-in. rose pot	.10
<i>Thuja occidentalis nigra</i> , 2 1/2-in. rose pot	.15
<i>Thuja orientalis Excelsa</i> , 2 1/2-in. rose pot	.15
<i>Thuja orientalis newarkii</i> , 2 1/2-in. rose pot	.15
<i>Thuja orientalis Bonita</i> , 2 1/2-in. rose pot	.15

Liners—Bed-Grown

<i>Euonymus alatus compactus</i> , 2-yr., 8 to 10 ins.	.15
<i>Ilex rotundifolia</i> , 2-yr., sheared, 8 ins.	.12 1/2
<i>Jasminum floridum</i> , 1-yr.	.12 1/2
<i>Euonymus</i> , small-leaved, spreading, 1-yr., 8 to 12 ins.	.10

Liners—Field-Grown

<i>Juniper, hetzi glauca</i> , 1-yr., 6 to 8 ins.	.10
<i>Juniper, hetzi glauca</i> , 1-yr., 8 to 12 ins.	.12
<i>Juniper, excelsa stricta</i> , 1-yr., 6 to 8 ins.	.10

Transplants—from field rows

<i>Ilex rotundifolia</i> , TT, 3-yr., 8 to 10 ins.	.25
<i>Ilex rotundifolia</i> , TT, 4-yr., 12 to 15 ins.	.35
<i>Juniper, Pfitzer</i> , T, 2-yr., 10 to 12 ins.	.35
<i>Juniper, hetzi glauca</i> , T, 2-yr., 10 to 12 ins.	.30

DECIDUOUS TREES,

B&B

<i>Cornus florida</i> (White Dogwood)	
2 to 3 ft.	\$1.00
3 to 4 ft.	1.50
4 to 5 ft.	2.00
5 to 6 ft.	2.75
6 to 8 ft.	4.00
<i>Cornus florida rubra</i> (Pink-Flowering Dogwood)	
24 to 30 ins.	1.50
30 to 36 ins.	2.00
3 to 4 ft.	3.00
<i>Magnolia soulangeana</i> (Pink Magnolia)	
3 to 4 ft.	2.75
4 to 5 ft.	3.50
5 to 6 ft.	4.50

GALLON-SIZE CONTAINER-GROWN STOCK

80c each

<i>Arborvitae</i> , Berckmans	
<i>Arborvitae</i> , Blue Cone	
<i>Juniper, pfitzeriana</i>	
<i>Juniper, pfitzeriana compacta</i>	
<i>Juniper, excelsa stricta</i>	
<i>Juniper, fastigiata</i> (Improved Irish)	
<i>Juniper, hetzi glauca</i>	
<i>Juniper, sabina</i>	
<i>Magnolia grandiflora</i>	
<i>Ilex burfordii</i>	
<i>Ilex rotundifolia</i>	
<i>Ilex convexa</i> (bullata)	
<i>Ligustrum lucidum</i>	
<i>Pyracantha formosana</i> , red	
<i>Pyracantha islandii</i> , orange	
<i>Gardenia fortunei</i>	

ARTWRIGHT NURSERIES,

COLLIERVILLE, TENN.

SPRING, 1958

ARMINTROUT'S EVERGREEN NURSERY

Rt. 1, Allegan, Mich.

Telephone: 865-J

	Per 100	Per 1000	Per 1000 in lots of 25,000
Norway Spruce			
(2-0), 2 to 4 ins.	\$3.50	\$15.00	\$12.50
(2-0), 4 to 6 ins.	4.00	20.00	17.50
White Spruce			
(2-0), 2 to 4 ins.	3.50	15.00	12.50
Colorado Blue Spruce			
(Our Colorado Blue Spruce is grown from the best hand-picked seed of selected blue trees.)			
(2-0), 2 to 4 ins.	4.00	20.00	15.00
(3-0), 2 to 4 ins.	4.50	22.50	20.00
(3-2), 2 to 4 ins.	5.50	35.00	....
Colorado Douglas Fir			
(2-0), 2 to 4 ins.	4.00	20.00	....
(2-0), 3 to 6 ins.	5.00	30.00	....
Japanese Black Pine			
(2-0), 3 to 5 ins.	5.00	25.00	....
Japanese Red Pine			
(2-0), 3 to 5 ins.	5.00	25.00	....
Lodgepole Pine			
(2-0), 3 to 5 ins.	5.00	25.00	....
(3-0), 6 to 8 ins.	6.00	35.00	....
(2-2), 4 to 8 ins.	7.00	45.00	....
Jack Pine			
(2-0), 3 to 5 ins.	3.50	15.00	10.00
Mugho Pine (Pumilo)			
(3-0), 1 to 3 ins.	5.00	25.00	....
Austrian Pine			
(2-0), 2 to 4 ins.	3.50	15.00	....
White Fir (Abies concolor)			
(2-0), 3 to 5 ins.	2.50	....	....
Nonyellowing Scotch Pine			
(2-0), 3 to 5 ins.	5.00	25.00	....
Austrian Hill Strain Scotch Pine			
(2-2), 6 to 10 ins.	7.50	50.00	....
Scotch Pine (Certified French Auvergne)			
(2-0), 3 to 5 ins.	3.50	15.00	....

SPECIAL

We have several hundred thousand Scotch and Austrian Pine which were planted late. They carry good, sturdy wood, but are short. The Scotch Pines are certified French Auvergne—so-called French Blue. The Austrian Pines are from the Alpine region of Austria.

	Per 1000	Per 1000 in lots of 10,000
Austrian (Described above)		
(2-0), 1 to 3 ins.	\$12.00	\$10.00
Scotch (Described above)		
(2-0), 1 to 3 ins.	12.00	10.00
White Birch (Alba pendula)		
(3-0), 12 to 18 ins.	\$ 7.50	\$ 50.00
(3-0), 18 to 24 ins.	12.50	100.00

COLORADO BLUE SPRUCE

Liners are our specialty. We buy the best hand-picked seed from selected trees. In the seedbeds they are 10 per cent shiner blue, 10 per cent green, and the balance in proportion. In time, 50 per cent will sell as shiners depending on soil. Acid peat helps bring out the color. Try it!

Colorado Blue Spruce 2 to 4 ins. is the ideal size to buy to develop into a 10 to 12-in. and 12 to 15-in. potted, full, salable plant. Plant them 4x4 ins. and they will start branching. After two years, move them to the field, and watch them grow into dollars.

A WORD OF CAUTION: We don't recommend field planting of spruce and fir seedlings under 4 ins. in size on sites which are extremely hot or dry. Small pine seedlings and transplanted spruce and fir will fare all right on sites of this type, however. If in doubt, check with your county agent, soil conservation service or district forester.

ALL OUR TREES are graded, with the undersized, light caliper and those with damaged roots culled out. Our seedlings are grown in high-humus, low-density soils, thus assuring sturdy stems and fibrous root systems.

TERMS: No order can be booked for less than 50 of one variety and size. Fifty, 500 and 12,500 of a size and kind are sold at the 100, 1000 and 25,000 price respectively.

Evergreens can be shipped after September 15 and March 15, weather permitting. Orders may be booked ¼ cash and the balance C.O.D. All prices F.O.B., Allegan, Mich.

Member of American Association of Nurserymen — Member of Michigan Association of Nurserymen

11; "New Data on Fruit Maturation," April 12; "Soiless Culture and Nutrient Misting," April 14; "Diagnosis and Control of Virus Diseases," April 15; "New Data on Microelements in Horticulture" and "Uses of Plastics in Horticulture," April 16, and "Heterosis and Breeding of Horticultural Plants," April 17.

Section meetings will be held each day of the congress (except Sunday, April 13) from April 11 to April 16, inclusive. These sections will present topics related to the growing of vegetable and seed stock, fruits, flowers, ornamental shrubs and trees, and Mediterranean and subtropical plants. Other section meetings will be devoted to discussions on popularizing horticultural techniques, modern techniques and productivity in horticulture, greenhouses and horticultural climatology.

Papers to be presented as section lectures or in the course of symposiums will be of an original nature, having a bearing on unpublished discoveries or new improvements. General lectures will be given at each of the three plenary sessions, scheduled for April 11, 14 and 17.

CORDATE-LEAVED PLANTS

[Continued from page 13]

weather sets in, the flowers often persist for as long as three weeks. If warm weather suddenly arrives, the flowering may be reduced to about 10 days. The blooming period varies, but often begins about April 10 in areas comparable to New York, N. Y. There is a refined, pleasant odor to these pendulous racemes of flowers, shown in illustration D. The fruits are unimportant ornamentally. The flower buds are broadly egg-shaped and when exposed to the sun are an attractive lavender pink. Extreme winter and early spring temperatures, however, may prevent them from flowering.

Stem Growth

The young and more vigorous stems are often zigzag, tan and covered with hundreds of small but conspicuous lenticels, seen in illustration G. The older stems are much darker. It is well to prune regularly by removing all stems an inch or more in diameter at the ground level. If this is done, the plant remains in good appearance and does not become open and unattractive. Basal pruning encourages new basal stems.

Species that deserve recognition are the smaller-leaved *Corylopsis pauciflora* (buttercup winter hazel), which produces an abundance of smaller flowers and does not usually exceed a height of four to five feet;

Christine Buisman Elm

RESISTANT TO ELM DISEASES

The Coming Shade Tree!

They are selling fast. Reserve yours now to be sure of a supply.

The Christine Buisman Elm was discovered in Holland a number of years ago by Dr. Christine Buisman. Repeated tests over many years by the United States Department of Agriculture show that it is extremely resistant to Dutch elm disease and phloem necrosis.

The Buisman Elm is a selection of the European Smooth-leaved Elm (*Ulmus carpinifolia*). It produces straight stems of heavy caliper, with central leaders, without forks or crotches, and it has slender but numerous ascending branches which produce a great mass of dark green foliage. Young trees tend to have a broad base and a pyramidal top, but when mature they become round topped like the American elm. It grows quite rapidly; we have produced trees 10 feet high in four years. Highly satisfactory for both lawn and street planting.



Left: Four-year-old Christine Buisman Elms in our nursery. Propagated vegetatively to preserve disease resistance.

PRICES

	Per 10	Per 100
8 to 10 ft.	\$45.00	\$400.00
6 to 8 ft.	32.00	300.00
5 to 6 ft.	23.50	225.00

30 or more at 100 rate.

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
OTTAWA, KAN.

EVERGREENS?

ARE YOU PREPARING TO MEET THE GREAT FUTURE DEMAND
FOREWARNED . . . FOREARMED!
WILL YOU BE CAUGHT NAPPING?

"I think the necessity of being ready increases."

—Abraham Lincoln

— THIS FINE STOCK —

	Per 100	Per 1000
<i>Abelia grandiflora</i> (Glossy Abelia) *Pink flowers all summer, R.C.	\$ 8.00	\$ 64.00
<i>Abelia grandiflora sherwoodii</i> (Sherwood Dwarf Abelia) *Fine foliage, tiny flowers, R.C.	8.00	64.00
<i>Azalea amoena coccinea</i> Splendid dwarf, red flowers. *3 to 6 ins., once transplanted	17.00	136.00
<i>Azalea hinodegiri</i> Dwarf, compact, bright red. *3 to 6 ins., once transplanted	17.00	136.00
<i>Azalea maxwellii</i> (Maxwell Azalea) Superb evergreen, carmine-red. *6 to 9 ins., once transplanted	22.00	176.00
<i>Sherwood Cerise Azalea</i> A wonderful dwarf evergreen. Bright, clear cerise. *3 to 6 ins., once transplanted	17.00	136.00
<i>Sherwood Orchid Azalea</i> Flowers clear lavender. Hardy evergreen. *1 to 3 ins., once transplanted	14.00	112.00
<i>Sherwood Red Azalea</i> Compact dwarf and evergreen. *3 to 6 ins., once transplanted	17.00	136.00
<i>Berberis buxifolia nana</i> (Dwarf Magellan Barberry) *Fine compact dwarf, R.C.	10.00	80.00
<i>Berberis chenaultii</i> (Chenault Barberry) *Similar to verruculosa, R.C.	10.00	80.00
<i>Berberis darwinii</i> (Darwin Barberry) Deep green, glossy. Bright orange flowers. *9 to 12 ins., once transplanted	27.00	216.00
<i>Berberis julianae</i> (Wintergreen Barberry) *One of the best upright barberries, R.C.	12.00	96.00
<i>Berberis stenophylla Irwinii</i> (Irwin Barberry) Low-growing, yellow flowers. *3 to 6 ins., once transplanted	18.00	144.00
<i>Berberis triacanthophora</i> (Threespine Barberry) *Slender, arching branches, R.C.	12.00	96.00
<i>Buxus sempervirens</i> (Common Box) *Well-known hedge plant, R.C.	8.00	64.00
<i>Buxus sempervirens rotundifolia</i> (Round-leaved Box) *Stout branches, round leaves, R.C.	8.00	64.00
<i>Buxus semp. suff. albo-marg.</i> (Silveredge Dwarf Box) *Dwarf, silvery, R.C.	9.00	72.00
<i>Calluna vulgaris rubra</i> (Red Heather) *A brilliant display of flowering beauty, R.C.	8.00	64.00

Corylopsis spicata (spiked winter hazel), which is more commonly grown, generally becomes five to six feet in height and has broader, larger heart-shaped leaves than the others; the fragrant winter hazel (*Corylopsis glabrescens*), which is probably the hardiest and one of the largest of the group, often reaching six to 10 feet, and the Chinese winter hazel (*Corylopsis sinensis*), which has somewhat narrower leaves on stems that may reach 10 or 12 feet. There may be one or two others in the trade, but I am not aware of them. It is better to prevent these plants from reaching the heights indicated by regularly removing the larger stems at the ground level after flowering.

The plants need moist, well-drained

soils that have liberal amounts of organic matter and a sunny or partially shaded location out of extremely windy areas. Their planting location determines somewhat their hardiness, but they are not suitable for extremely cold climates.

The foliage is such a fresh, clean green that it can be an asset to many plantings. Even though the plant may be slightly open in appearance, it does not detract from the shrub's value, but adds to it. The decorative leaves are accentuated because of this.

The shrub border, terrace, perennial garden, side and rear entrance planting or the front border are locations in which the winter hazels might be placed to make garden living more pleasant.

<i>Cephalotaxus harringtonia fastigiata</i> (Plum Yew) *Remarkable columnar, yew-like tree, R.C.	Per 100	\$120.00
<i>Chamaecyparis lawsoniana cyano-viridis</i> *Lovely silvery dwarf, New. R.C.	12.00	
<i>Chamaecyparis pisifera filifera</i> (Thread Cypress) *A multitude of filaments, R.C.	12.00	
<i>Cotoneaster parneyi</i> (Parney Cotoneaster) *A great mass of red berries, R.C.	9.00	
<i>Daboecia polifolia</i> (Swedish Bell Heather) *Low-growing. Pink flowers, R.C.	8.00	
<i>Daboecia polifolia alba</i> (White Irish Bell Heather) *Nodding flowers of purest white, R.C.	8.00	
<i>Daboecia polifolia rosea</i> (Pink Irish Bell Heather) *Flowers are abundant, rosy-lavender, R.C.	8.50	
<i>Erica carnea</i> (King George) *Low-growing. Red flowers, R.C.	8.00	
<i>Erica carnea</i> (Sherwood Creeping Heath) *Low creeper. Flowers bright carmine-red, R. C.	8.00	
<i>Erica carnea</i> (Sherwood Early Red Heath) *An early red. Blooms in January, R.C.	8.00	
<i>Erica carnea</i> (Springwood White) *Fine low-growing heath. Flowers pure white, R.C.	8.00	
<i>Erica cinerea</i> (C. D. Eason) *Soft pink flowers, R.C.	8.00	
<i>Erica mediterranea hybrida</i> (Darley Heath) *Lavender, early, the hardiest, R.C.	8.00	
<i>Escallonia langleyensis</i> (Langley Escallonia) *Red flowers, fragrant foliage, R.C.	8.00	
<i>Euonymus radicans</i> (Wintercreeper) *Low procumbent shrub, rich green foliage, R.C.	8.00	
<i>Euonymus rad. arg.-marg.</i> (Silveredge Wintercreeper) *A variegated, low, procumbent shrub, R.C.	8.00	
<i>Euonymus radicans coloratus</i> (Purple-leaved Wintercreeper) *A trailing evergreen, very hardy. *12 to 24 ins., twice transplanted	22.00	
<i>Euonymus radicans vegetus</i> (Big-leaved Wintercreeper) *A larger type of radicans, profuse growth, R.C.	8.00	
<i>Hypericum calycinum</i> (Aaron's-beard St.-John's-wort) *Thick ground cover, yellow flowers, R.C.	8.00	
<i>Hypericum patulum henryi</i> (Henry St.-John's-wort) *3 to 4 ft., yellow flowers, R.C.	8.00	
<i>Ilex aquifolium albo-marginata</i> (Silveredge English Holly) *Silvery foliage, red berries, R.C.	12.00	
<i>Ilex aquifolium angustifolia</i> (Narrow-leaved English Holly) *Beautiful slender tree, R.C.	12.00	
<i>Ilex aquifolium aureo-regina</i> (Golden Queen Holly) *Most beautiful golden holly, R.C.	20.00	
<i>Ilex aquifolium pyramidalis</i> (Pyramidal English Holly) *A great abundance of red berries, R.C.	12.00	
<i>Ilex crenata rotundifolia</i> *Dwarf, small leaves, R.C.	8.00	
<i>Ilex pernyi</i> (Perry Holly) *Dense foliage, prickly leaves, R.C.	10.00	

MILWAUKEE TRADE AIDED

A recent issue of the Sunday gardening and real-estate section of the Milwaukee Journal carried an article which will undoubtedly increase understanding between local nurserymen and their customers. The article was directed to those who balk at paying high prices for "dinky" nursery plants. As a general rule, the writer said, the high prices are warranted, because the plants that give the most satisfaction over the year are slow growing, therefore expensive to produce.

Thomas Lied, local nurseryman and member of the Master Landscape Gardeners' Association, was quoted as explaining that \$16 will buy a dwarf Alberta spruce two and a half feet high or an arborvitae six

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	Per 100	Per 1000
<i>Osmanthus zabeliana</i> (Zabel Laurel)		
Hardy, semidwarf and a good bloomer.		
8 to 9 ins., once transplanted	\$20.00	\$160.00
<i>Osmanthus columbianum</i> (Labrador Tea)		
Dark green leaves, white flowers, lovely.		
8 to 9 ins., once transplanted	22.00	176.00
<i>Osmanthus delavayi</i> (Delavay Osmanthus)		
Fragrant white flowers. Lovely, R.C.	9.00	72.00
<i>Osmanthus burkwoodii</i> (Burkwood Osmania)		
Dark foliage, white flowers, R.C.	9.00	72.00
<i>Euonymus alatus</i> (Japanese Spurge)		
Evergreen and grows in dense masses.		
8 to 9 ins., once transplanted	9.00	72.00
<i>Euonymus mucronata</i> , pink, white or red		
Many your colors, R.C.	9.00	72.00
<i>Euonymus decora</i> (Lance-leaved Phillyrea)		
Elegant round-topped shrub. White flowers, R.C.	9.00	72.00

DID YOU KNOW?

With the proper selection of varieties heath or heather will bloom every month of the year.

<i>Arbutus menziesii</i> (Nest Spruce)		
Wonderful, dwarf, dark green, flattened globe.		
8 to 9 ins., TT., B.R.	50.00	400.00
<i>Arbutus sherwoodii</i> (Sherwood's Multiflorum Spruce)		
Beautiful, dwarf, irregular globe, New.		
8 to 12 ins., TT., B.R., near specimens	73.00	
<i>Arbutus conica</i> (Dwarf Alberta Spruce)		
Small, compact, narrow pyramid. In great demand.		
8 to 9 ins., TT., B.R.	75.00	450.00
8 to 12 ins., TT., B.R.	90.00	810.00
<i>Arbutus densata</i> (Black Hills Spruce)		
Handsome hardy tree.		
8 to 4 ins., once transplanted	9.00	72.00
<i>Arbutus pungens</i> (Colorado Spruce)		
One of the most desirable of the spruces.		
8 to 15 ins., once transplanted, B.R.	20.00	160.00
<i>Arbutus japonica</i> (Japanese Pieris)		
A magnificent shrub. White flowers, R.C.	9.00	72.00
<i>Pinus griffithii</i> (Griffith Pine)		
Sometimes called the blue pine. Rare.		
8 to 9 ins., once transplanted	14.00	112.00
<i>Pinus jeffreyi</i> (Jeffrey Pine)		
Another open picturesque, spire-shaped conifer.		
8 to 12 ins., once transplanted	18.00	144.00
<i>Pinus mughus compacta</i> (Mugho Pine)		
Dense, stout, dwarf evergreen.		
8 to 9 ins., TT., B.R., near specimens	49.00	
8 to 12 ins., TT., B.R., near specimens	65.00	
<i>Pinus strobus</i> (Stone Pine)		
Picturesque, bright green.		
8 to 9 ins., not transplanted	12.00	96.00
<i>Deodendron intricatum</i> (Bluet Rhododendron)		
Dwarf gem, tiny leaves, blue flowers, R.C.	12.00	96.00



SHERWOOD NURSERY CO.
Evergreens - PROPAGATORS AND GROWERS
WHOLESALE

Wholesale list available—trade only.
(It contains complete descriptions.)

CORBETT, ORE.

	Per 100	Per 1000
<i>Taxus baccata</i> (English Yew)		
One of the finest of all hedge subjects.		
9 to 12 ins., TT., B.R., hedge grade	\$41.00	
<i>Taxus baccata dovasdoni</i> (Dovaston Yew)		
*Dwarf cushion, very choice, R.C.	12.00	\$ 96.00
<i>Taxus baccata pendula</i> (Weeping English Yew)		
*Dark green, pendulous, Rare, R.C.	12.00	96.00
<i>Taxus baccata procumbens</i> (Prostrate English Yew)		
*Dwarf, compact, symmetrical, R.C.	10.00	80.00
<i>Taxus baccata repandens</i> (Spreading English Yew)		
*Choice, dark green spreader, R.C.	10.00	80.00
<i>Taxus bac. repandens aurea</i> (Gold Spreading English Yew)		
*Rare golden spreader, R.C.	12.00	96.00
<i>Taxus cuspidata</i> (Japanese Yew)		
One of the most satisfactory of dwarf evergreens.		
9 to 12 ins., TT., B.R., hedge grade	49.00	
<i>Taxus cuspidata columnaris</i> (Columnar Yew)		
*Unusual irregular column, R.C.	10.00	80.00
<i>Taxus cusp. fastigiata aurea</i> (Gold Column Japanese Yew)		
*Dwarf, compact, very rare and choice, R.C.	12.00	96.00
<i>Taxus media hicksii</i> (Hicks' Yew)		
*Hardy, irregular column, R.C.	10.00	80.00
<i>Taxus</i> (name unknown). A dwarf golden globe which is brightest in winter.		
*Very fine and very scarce, R.C.	12.00	96.00
<i>Taxus</i> (name unknown)		
*Dwarf, light golden globe. Rare, R.C.	12.00	96.00
<i>Teucrium chamaedrys</i> (Chamaedrys Germender)		
*Low, heath-like, lavender flowers, R.C.	8.00	64.00
<i>Thuja occidentalis</i> (American Arborvitae)		
Makes fine low hedges or taller windbreaks.		
3 to 4 ft., TT., B.R., hedge grade	97.00	
<i>Thuja occ. pyramidale</i> (American Pyramidal Arborvitae)		
*Dense, beautiful column, R.C.	9.00	72.00
<i>Thuja occidentalis umbraculifera</i> (Umbrella Arborvitae)		
*Dwarf, dense, flattened globe, R.C.	9.00	72.00
<i>Viburnum davidi</i> (David Viburnum)		
*Popular dwarf with broad leaves, R.C.	12.00	96.00
<i>Vincetoxicum minor</i> (Common Periwinkle)		
Superlative evergreen ground cover, blue flowers.		
*1-yr. plants	8.00	64.00

— REFER TO OUR CATALOG FOR OTHER ITEMS —

Shipping charges prepaid on stock marked with an asterisk(*). No packing charge. T indicates once transplanted; TT, twice transplanted; B.R., bare-root; R.C., rooted cutting. Rooted cuttings will be shipped when ready varying from February through June and cannot be held. Rooted cutting orders must total a minimum of 100 plants. Please give an alternate variety. 25% down, 25 at 100 rate; 250 at 1000 rate.

feet high. But the Alberta spruce will be a handsome plant after 10 years, while the arborvitae, a plant which tends to die in dry winters, may have to be replaced a couple of times.

Mr. Lied said that many nurserymen are interested in offering slow-growing plants that will give long-run satisfaction, but are meeting discouraging resistance from buyers. The tendency, therefore, is to concentrate on quick-growing plants for rapid turnover. He added that scarcity of the slower-growing plants tends to make prices still higher.

Mr. Lied went on to give examples of other plants which sell at comparatively high prices in small sizes, such as certain dwarf yews, dwarf high bush cranberry and Crimson Pygmy red-leaved barberry. He

said that one way to tell whether a small plant is worth a high price is by the denseness of the foliage.

He went on to explain that part of the reason for the price is the special treatment such plants receive in a nursery. He described the pruning, transplanting and other steps in the development of a quality nursery plant.

GRULLEMANS HONORED

J. J. Grullemans, president of the Wayside Gardens Co., Mentor, O., was recently honored by the Massachusetts Horticultural Society when he was awarded the society's large gold medal. The citation bestowed upon Mr. Grullemans names him "a truly dedicated horticulturist who

set his sights high when he first started in business. He has kept them there persistently ever since," the citation continues, "and he has proved to others by so doing that high-class merchandise presented in a high-class manner will successfully and profitably appeal indefinitely to a high-class market. The annual Wayside Gardens' catalog is a continuing monument to its author."

Several years ago, Mr. Grullemans celebrated his 50th anniversary in the nursery business. M. B.

PLANTATION NURSERY, 6100 Plantation road, northwest, Roanoke, Va., is the new name and address of the former Grayholme Nursery, R. F. D. 3, Box 418, Roanoke.



Pano-drench

In 1957, 628 *Pano-drench* users conducted their own tests on this exciting new product...

Here are the results:

Two years of careful testing convinced the makers of *Pano-drench* that they had a genuinely outstanding product.

But although it had effectively controlled damping-off and similar fungus diseases in all trials, it was realized that the problem of testing it on all species and under all types of conditions under which the commercial user was likely to employ it, would be

a sizeable project, and one which would take several years.

So to find the answers quickly and accurately, a 1 oz. bottle of *Pano-drench* was offered to all commercial greenhouse operators and nurserymen who would agree to test it and report their findings. Reports were submitted by 628 and their findings, reported on these pages, speak for themselves.

A typical report is shown at the right. Information compiled from these reports shows conclusively that wherever plants are grown, there is a definite threat of damping-off.

And wherever damping-off is a threat, you can expect Pano-drench to stop it.

Pano-drench is a liquid concentrate... simple to prepare, easy to apply. Just add water... about 2 teaspoons of *Pano-drench* to 3 gallons of water... and apply with an ordinary sprinkling can. This quantity treats about 20 square feet of soil.

You can treat your growing medium before or after seeding. Use it on cuttings, flats, propagating benches, transplant beds, or flower pots.

Pano-drench has proven to be an effective cure as well as a preventative for damping-off.

If you grow plants, then you need *Pano-drench*, — the control for damping-off.

QUESTION: For what purpose did you use the sample bottle of *Pano-drench* sent you?

NUMBER OF REPLIES: 628

Analysis	Number
Seed Flats	475
Transplant Flats	201
Propagating	157
Stock Benches	31
Did not use sample	22

Comment: Although the greatest number reported using *Pano-drench* on seed flats, there appears to be no reason for limiting it to that use. The time of testing (late fall and early winter) and the small size of the sample undoubtedly influenced the type of tests conducted. The remarkable success reported by the substantial number which *did* use their sample of *Pano-drench* for cuttings provides conclusive evidence that *Pano-drench* should be used on cuttings and in any growing medium where damping-off is evident. Also, the fact that less than 4% did not use their sample indicates that the need for *Pano-drench* is practically universal.

QUESTION: Will you use *Pano-drench* again next year?

NUMBER OF REPLIES: 527

	Yes	No
Greenhouse Operators	325	25
Nurserymen & Miscellaneous	153	24
	478	49

Comment: The overwhelming proportion of "yes" answers (91%) versus "no" answers leaves no doubt regarding the effectiveness of *Pano-drench*. Note that this proportion correlates closely with the test results reported in the upper table on the next page.

Tests show effective **CONTROL OF DAMPING-OFF** on over 150 species. Growers report success on cuttings, seed flats, beds... Wherever Damping-Off Was A Factor

QUESTION: On what kind of seed or plants did you use Pano-drench? With what results?

MOST FREQUENTLY MENTIONED

Number of Tests	Excellent	Good	Unsatisfactory
157 Petunia	93	59	5
115 Snapdragon	60	44	11
96 Tomato	59	32	5
80 Salvia	43	29	8
73 "Annuals"	45	24	4
67 Pepper	31	25	11
56 Aster	32	21	3
39 "Bedding Plants"	20	17	2
37 Zinnia	19	14	4
33 Begonia	17	12	4
27 Cabbage	12	14	1
29 "Vegetables"	18	11	—
26 Chrysanthemums	13	7	6
25 Coleus	17	8	—
24 Marigold	14	7	3
21 "Cuttings"	11	9	1
20 "Perennials"	13	6	1
19 Pansy	13	5	1
19 Alyssum	9	8	2
19 Azalea	13	3	3
17 Geranium	10	6	1
14 Lobelia	7	7	—
14 Eggplant	6	5	3
13 Carnation	8	4	1
11 Verbena	6	5	—
10 Stocks	5	4	1
1,061	594	386	81

Comment: Please note that the above tabulation lists only those species which were most frequently mentioned. Space does not permit listing the rest of the plants by name. However, the complete report, showing results obtained with each of more than 150 species may be obtained by writing to Panogen Company, Ringwood, Illinois.

It is significant that successful results were reported from virtually every specie tested. In 56% of all tests, users reported "excellent" results; in 36% of the tests results were considered "good"; in less than 8% were results classified "unsatisfactory."

It should be further noted that the "unsatisfactory" results were in every case based on too small a number of trials to be significant and failure could have resulted from a number of other factors such as faulty application, soil condition, or poor seed. Panogen's Research Department is investigating a number of these cases in an endeavor to learn the reason for the occasional failure.

The manufacturers of Pano-drench are grateful to all who cooperated in this giant research project because, with their help, it has now been definitely proven that...

Pano-drench STOPS DAMPING-OFF ALMOST WHEREVER IT IS USED

Typical Comments

POMONA, CALIFORNIA—"Your product was recommended by the Citrus Experimental Station at Riverside, and is everything you say it is. It made me a cool \$1,000 this spring."

TUSCUMBIA, ALABAMA—"Before I began using Pano-drench I lost money on my fine Hybrid petunias; they would damp-off very badly. Several times I lost whole flats of plants from expensive seed, but Pano-drench solved my problem."

GREENACRES, WASHINGTON—"Never saw so many snapdragon seedlings in my life. Especially good on peppers as it has been a long time since I have seen flats develop 104 plants when I put in that many seedlings."

NASHPORT, OHIO—"I never realized how many seeds were in a packet until this year. Pano-drench got them all up. I shall have to thin out future sowings."

JACKSONVILLE, FLORIDA—"Flats of Australian Pine seed treated with Pano-drench came up almost 100%. Another flat, untreated, germinated only about 50%."

CAPLEY, OHIO—"I did not lose a pepper plant out of about 10,000 plants this year—other years I have lost plenty from damping-off."

FAIRFIELD, MAINE—"Not one flat damped-off—not a plant—and my seed came perfectly."

OXFORD, CONNECTICUT—"This year with Pano-drench, damping-off was negligible even in Zinnias. These results were found under very unfavorable conditions for growing seedlings. We plan to use Pano-drench on all seed flats and transplants."

WESTBROOK, MAINE—"Would recommend the use of it to anyone who cannot steam sterilize."

VANCOUVER, WASHINGTON—"The plants I used Pano-drench on doubled in size—alongside some plants that had no treatment. Texture and color of foliage very good."

ELGIN, OREGON—"Pano-drench actually stopped damping-off already well advanced in a flat of Petunia seedlings."

FIND OUT FOR YOURSELF!

● You, too, will be delighted when you discover how easy it is to solve your damping-off problems the easy, economical way... with Pano-drench.

Just fill in and mail the coupon to the Distributor of your choice. You'll find a list of Pano-drench Distributors on page 30 of this magazine.

Pano-drench

A PRODUCT OF PANOGEN COMPANY
Ringwood, Illinois
DIVISION OF MORTON CHEMICAL COMPANY

O.K. Mr. Distributor...

For Name and Address, see page 30

Here's my order for Pano-drench. Please ship immediately.

Ship _____ 1 oz. bottles @ \$1.95 each. Total \$ _____

Ship _____ 4 oz. bottles @ \$5.95 each. Total \$ _____

Ship _____ Pint bottles @ \$19.20 each. Total \$ _____

☐ My check is enclosed.

☐ Bill me in usual manner.

NAME _____

FIRM _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

PLEASE PRINT

Authorized Distributors of *Pano-drench*



**FOR CONTROL OF
DAMPING OFF**

(See Ad on Pages 28 and 29)

American Bulb Co.
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Chicago 7, Ill.

American Bulb Co.
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New York 17, N. Y.

American Horticultural
Supply Co.
820 End Ave.
New York 25, N. Y.

Agrow Texas Co.
Box 87
South San Antonio Sta.
San Antonio, Tex.

Bachman's, Inc.
6010 Lyndale Ave., S.
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Paul H. Baermann Seed
Co.
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Beckert Seed Co.
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Buffalo Garden Supply
76 S. Long St.
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Burgess Seed & Plant Co.
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Garden Supply
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Des Plaines, Ill.

Doggett-Fried Co. of
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Cedar Swamp Rd.
Glen Head, N. Y.

Raymond A. Fleck, Inc.
Street Rd., 133
Southampton, Pa.

Florist Products
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Florist Supply, Inc.
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Des Moines 15, Ia.

E. C. Geiger
North Wales, Pa.

H. G. German Seeds
103 Bank St.
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Fred C. Gloeckner & Co.
15 E. 26th St.
New York, N. Y.

R. L. Gould & Co.
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Grand Rapids Growers
401 Ionia, S.W.
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Green Cross Products
Div. of Sherwin-Williams
Co. of Canada, Ltd.

Hardison Seed Co.
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Nashville, Tenn.

I. G. Harman & Sons
1800 19th, N.E.
Canton 4, O.

Holmes Seed Co.
1017 Ninth St., S.W.
Canton, O.

Horn Seed Co.
210 W. California
Oklahoma City, Okla.

Horticulture Supply Co.
2181 E. 55th St.
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Hubbard-Hall Chem. Co.
Specialty Sales Office
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Jednak Floral Co.
P. O. Box 1917
Columbus 16, O.

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362 N. Oak St.
Buffalo, N. Y.

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Plant City, Fla.

E. A. Martin Seed Co.
P. O. Box 6178
Jacksonville, Fla.

J. Chas. McCullough
Seed Co.
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Henry F. Michell Co.
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T. W. Wood & Sons
11 S. 14th St.
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COVER ILLUSTRATION

Acer Pseudoplatanus Worleei

Acer pseudoplatanus, the sycamore maple, is a vigorous species native to Europe and west Asia and reaches nearly 100 feet under favorable conditions, but matures at considerably less in cultivation. As a rule, the cultivars having colored foliage do not attain the height of the species type. However, they make good medium-size shade trees of interest. Like the parent, the variegated forms are quite hardy and do well in exposed situations and on the seashore from zone 3 and 4 southward. The foliage of the species is dark green, smooth above and with slight bloom beneath, 5-lobed and from three to five inches across.

Acer pseudoplatanus worleei, the sycamore maple, has leaves yellow

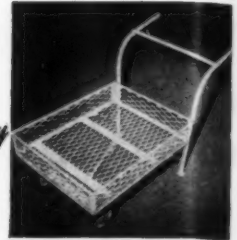


Foliage of Acer Pseudoplatanus Worleei

to orange-yellow, with red petioles when young, and is highly attractive at this stage. The species has been cultivated for centuries, and several fine forms have been selected for propagation. They include A. p. leopoldi, which has dark pink leaves spotted with yellowish pink when young; A. p. variegatum, leaves reddish variegated with white when young, and A. p. erythrocarpum, bearing bright red fruit. There is also the more commonly seen A. p. purpureum, on which the dark red leaves are purple beneath with conspicuous yellow veins.

The sycamore maple, as a species, is tolerant to soil, and the varieties are hardy enough for much more general use than has been made of these well-shaped, attractive-

*Sturdy
up-
proof*



Cloverset
HANDY CARTS

Well-balanced nursery carts of strong welded steel with 24x30x6-in. bed; holds 12 potted roses or equivalent in safe upright position. Two free-running, ball-bearing 10x1.75-in. wheels have semi-pneumatic tires. Shipping weight approximately 45 lbs.; shipped in carton and easily assembled.

\$32.50

F.O.B. Kansas City

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for extra
profits with
Cloverset



ROSE & GARDEN DUST

Our own high-Lindane formula proved highly effective against chewing and sucking insects, blackspot and powdery mildew. Water-soluble; may be used as a dust or spray. Five sizes.

Size	Retail	No. in Case	Year Price
8-oz. sifter	\$ 0.85	12, wt. 8 lbs.	\$ 6.80
1-lb. sifter	1.50	12, wt. 12 lbs.	12.00
12-oz. dust gun ..	1.50	12, wt. 13 lbs.	12.00
4-lb. container ..	4.80	6, wt. 29 lbs.	19.20
50-lb. sack	55.00	wt. 50 lbs.	36.67

100 lbs. or more orders shipped prepaid.

**Practical products for
the modern nursery, from**



105th and Wornall Rd.
KANSAS CITY 14, MO.

CLOVERSET FARM, Dept. A

105th and Wornall, Kansas City 14, Mo.

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☐ Handy Cart(s) at \$32.50
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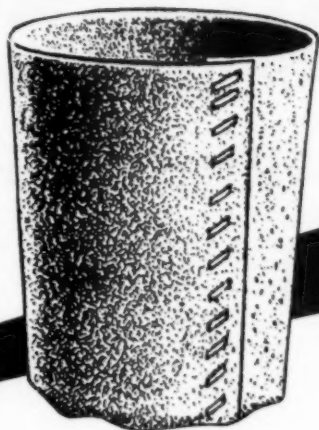
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A PRODUCT OF PANOGEN CO.
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when it comes to pots for potting
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ONE STANDS OUT!

THE *Cloverset* POT

an even **DOZEN** reasons for Cloverset superiority . . .

1. Lasts a full year or more in the sales frame.
2. Contains roots safely within the soil ball; permits transplanting any time.
3. Has adequate bottom opening for good drainage without waterlogging; no gravel necessary.
4. Rests on wide bottom; no blowing over in the frames.
5. Available in sizes to accommodate stock of any salable size.
6. Is neat and uniform in appearance, an asset in the sales area.

7. Tough enough to permit easy handling in potting shed and frame.
8. Easy for customer to remove—at once, week later or even a month after he takes stock home.
9. Saves time required to cut away metal cans before delivery.
10. Need not be removed before plant is delivered to customer.
11. Lightweight (but with all these qualities) to save on freight costs.
12. . . . and sufficiently low-priced so that it may be given away with the plant.

ONLY CLOVERSET POTS give you all these features. In addition, they come stacked in cartons with bottom flaps folded in, ready to use; even inexperienced workers in the potting shed can do a neat job with Cloverset Pots! Order now and be all set for profitable cash-and-carry sales.

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SIZE	HEIGHT	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT	F.O.B. KANSAS CITY		F.O.B. MOORESTOWN, N. J.	
No. 0	5 1/4 ins.	5 ins.	8 ins.	200	Per 1000	Per 100	Per 1000	Per 100	Per 1000
No. 1	6 1/4 ins.	6 ins.	7 ins.	100	210 lbs.	\$4.25	\$40.00	\$ 5.25	\$ 40.50
No. 2	7 1/4 ins.	7 ins.	6 ins.	100	340 lbs.	5.25	50.00	6.25	50.50
No. 3	9 ins.	8 ins.	9 ins.	100	535 lbs.	5.75	55.00	7.25	60.50
					600 lbs.	6.25	60.00	8.25	75.00
No. 4	18 ins.	12 ins.	...	25	Per 100	25 pots, \$7.70; 50 pots, \$14.60;			
					125 lbs.	75, \$21.75; 100, \$26.15;		30.00	
						1000, \$231.00.		265.00	

(We do not break cartons)

SIZES FOR EVERY NEED:

roses, perennials,
shrubs, young trees

ORDER NOW; HAVE POTS ON HAND FOR SPRING POTTING!

CLOVERSET FARM, Dept. A
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Kansas City 14, Mo.

Please send items checked; I enclosec.

☐ Sample set of 5 pots, 50c (limit one).

☐ Complete information about Cloverset Pots.

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Use coupon to order sample set.



105th and Wornall Rd. KANSAS CITY 14, MO.
EASTERN DISTRIBUTOR, Moorestown Gardens, Moorestown, Burlington
County, N. J.

20



MILLION

Our Tremendous

and MUSSER TREES grow

Buyers of trees are making an investment for the future. Trees or shrubs which, after planting, are properly mature may cause later years of regret. Future satisfaction or profit depends primarily on the choice of stock.

Careful Selection of seed, good heredity and scientific methods are important. Starting with such the chances of failure are minimized and later years of satisfaction are assured.

Good Heredity characteristics through careful selection of seed is a basic Musser policy. Expert foresters gather seed from all parts of America and Europe.

Through Scientific Culture in the nurseries, seedlings develop the strong, compact mass of fine needles characteristic of Musser stock. Such young trees derive more nourishment from the soil and the place where poor stock may fail to survive.

New Techniques in fertilization, spraying and handling are studied and tested to assure healthy, disease-free seedlings. The most modern equipment and methods are employed.

It is only through an ever increasing list of satisfied customers through the years that Musser Forests production has grown to its present tremendous volume.

50 at 100 rate; 500 at 1000 rate.

Per 100 Per 1000

• SPECIAL STRAIN SCOTCH PINE

Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.

2-yr., S. (2-0), 2 to 4 ins. ...	\$ 4.00	\$ 20.00
2-yr., S. (2-0), 4 to 8 ins. ...	7.00	35.00
4-yr., T. (2-2), 5 to 10 ins. ...	20.00	100.00

• WHITE PINE

One of the best timber species. Excellent windbreak and hedge. Very good ornamental and Christmas tree.

2-yr., S. (2-0), 3 to 6 ins. ...	5.00	25.00
3-yr., S. (3-0), 4 to 8 ins. ...	7.00	35.00
3-yr., S. (3-0), 6 to 12 ins. ...	11.00	55.00

• AUSTRIAN PINE

Good timber species. A beautiful, dark green, long-needed ornamental and Christmas tree, grown from selected seed from the Austrian Alpine region.

2-yr., S. (2-0), 2 to 4 ins. ...	4.00	20.00
2-yr., S. (2-0), 3 to 6 ins. ...	5.00	25.00
3-yr., S. (3-0), 5 to 10 ins. ...	8.00	40.00

Excellent size for direct field planting.

• MUGNO PINE—Pumilio Strain

Very best of true dwarf. Compact, low-growing ornamental Pine.

3-yr., S. (3-0), 2 to 3 ins. ...	5.00	25.00
3-yr., S. (3-0), 3 to 5 ins. ...	8.00	40.00

All stock grown from
Selected seed and cuttings.
Carefully Graded and Packed

No charge for packing and boxing.

Our cold storage
permits late shipments.

ORDER NOW!
write or
phone 5-5688

TREES A YEAR! *

Volume enables us to Save You Money - -

at 100 rate; 500 at 1,000 rate

	Per 100	Per 1000
AMERICAN RED PINE		
Excellent timber and Christmas tree.		
1-yr. S. (2-0), 2 to 4 ins.	\$ 4.00	\$ 20.00
1-yr. S. (2-0), 3 to 5 ins.	5.00	25.00
1-yr. S. (3-0), 4 to 8 ins.	7.00	35.00
Suitable for field planting.		
1-yr. S. (3-0), 6 to 12 ins.	9.00	45.00
4-yr. T. (2-2), 8 to 12 ins.	20.00	100.00

MUSSER EXCLUSIVE NORWAY SPRUCE		
Exceptionally fast-growing, straight-stemmed stock especially desirable for Christmas trees, ornamentals and timber. Grown from seed collected by our own men from selected trees.		
1-yr. S. (2-0), 5 to 10 ins.	7.00	35.00
1-yr. S. (3-0), 8 to 12 ins.	10.00	50.00
4-yr. T. (3-1), 8 to 12 ins.	16.00	80.00
4-yr. T. (2-2), 10 to 14 ins.	20.00	100.00

NORWAY SPRUCE		
1-yr. S. (2-0), 2 to 4 ins.	2.50	12.50
1-yr. S. (2-0), 3 to 5 ins.	5.00	25.00
1-yr. S. (3-0), 4 to 8 ins.	7.00	35.00
1-yr. T.T., 12 to 18 ins.	\$1.00 each	
1-yr. T.T., 18 to 24 ins.	\$1.50 each	
1-yr. T.T., 24 to 30 ins.	\$2.50 each	
*Sold in lots of 5 or more. Individually packed with ball of peat moss.		

WHITE SPRUCE		
Similar to Norway Spruce except for its lighter color and slower growth rate.		
1-yr. S. (2-0), 2 to 4 ins.	2.50	12.50
1-yr. S. (2-0), 3 to 5 ins.	5.00	25.00
1-yr. S. (3-0), 4 to 8 ins.	7.00	35.00
1-yr. S. (3-0), 8 to 12 ins.	9.00	45.00
4-yr. T. (3-1), 8 to 12 ins.	18.00	90.00

BLACK HILLS SPRUCE		
Fine ornamental. Most compact spruce. Excellent Christmas tree.		
1-yr. S. (2-0), 2 to 4 ins.	4.00	20.00
1-yr. S. (3-0), 4 to 8 ins.	7.00	35.00
1-yr. S. (3-0), 8 to 12 ins.	10.00	50.00
4-yr. T. (2-2), 5 to 10 ins.	17.00	85.00
4-yr. T. (3-2), 8 to 12 ins.	24.00	120.00

SERBIAN SPRUCE (Picea omorika)		
Valuable ornamental. Tall, symmetrical growth, with very narrow branch spread. Needles $\frac{1}{2}$ to $\frac{3}{4}$ -in. long. Glossy green.		
1-yr. T. (3-2), 8 to 14 ins.	30.00	150.00

COLORADO BLUE SPRUCE		
Excellent stock—finest in the country for ornamental and Christmas tree use. Sturdy, compact, straight stems. From slightly blue-green to marvelous blue. Seed collected at very high cost from trees showing only the best characteristics.		
1-yr. S. (2-0), 2 to 4 ins.	4.00	20.00
1-yr. S. (3-0), 3 to 6 ins.	6.00	30.00
1-yr. S. (3-0), 4 to 8 ins.	9.00	45.00
1-yr. S. (3-0), 6 to 10 ins.	12.00	60.00
Very superior stock		
4-yr. T. (3-1), 4 to 8 ins.	18.00	90.00
4-yr. T. (2-2), 6 to 10 ins.	25.00	125.00
4-yr. T. (3-2), 8 to 12 ins.	35.00	175.00
1-yr. T.T., 10 to 12 ins.	\$1.00 each	
1-yr. T.T., 12 to 15 ins.	\$1.50 each	
1-yr. T.T., 16 to 20 ins.	\$2.00 each	
*Sold in lots of 5 or more. Individually packed with ball of peat moss. Twice pruned, sheared to develop a full bushy plant.		

ENGELMANN BLUE SPRUCE		
1-yr. S. (3-0), 5 to 10 ins.	7.00	35.00

CANADIAN HEMLOCK		
Lacy, graceful growing habit. Can be sheared to any size. Hedges, specimen ornamentals. Full shade or full sunlight.		
3-yr. S. (3-0), 4 to 8 ins.	\$16.00	\$ 80.00
3-yr. S. (3-0), 8 to 12 ins.	24.00	120.00

DOUGLAS FIR		
Hardy Rocky Mountain type. Superior ornamental and Christmas tree.		
2-yr. S. (2-0), 4 to 8 ins.	5.00	25.00
2-yr. S. (2-0), 8 to 10 ins.	7.00	35.00
3-yr. S. (3-0), 8 to 12 ins.	11.00	55.00
5-yr. T. (3-2), 8 to 12 ins.	20.00	100.00

BALSAM FIR		
Fine for Christmas trees and ornamentals.		
2-yr. S. (2-0), 2 to 4 ins.	6.00	30.00
3-yr. S. (3-0), 2 to 6 ins.	8.00	40.00

CONCOLOR FIR		
Excellent ornamental. Silver trunk, soft silver foliage. Fine for Christmas trees. Holds needles best of any short-needle tree.		
2-yr. S. (2-0), 3 to 6 ins.	9.00	45.00
3-yr. S. (3-0), 4 to 9 ins.	13.00	65.00

JAPANESE LARCH		
Japanese Larch is not evergreen, but is included here because the fine, light green needles relate them to evergreens in appearance.		
2-yr. S. (2-0), 5 to 10 ins.	9.00	45.00

AMERICAN ARBORVITAE		
Popular for hedges and ornamentals.		
3-yr. S. (3-0), 3 to 6 ins.	5.00	25.00
3-yr. S. (3-0), 6 to 8 ins.	8.00	40.00

ORIENTAL ARBORVITAE (Thuja orientalis)		
A popular evergreen ornamental. Grows in pyramidal form—graceful and symmetrical. Finer foliage than the other arborvitae. Light green.		
2-yr. S. (2-0), 6 to 14 ins.	8.00	40.00

GLOBE ARBORVITAE—Transplants		
Plants started from rooted cuttings assure true strains. Hovey's, green.		
1-yr. T., 4 to 6 ins.	30.00	250.00

*Ornamental, 12 to 16-in. spread, 12 to 16-in. height, \$2.25 each.		
*Field-grown, twice transplanted and twice sheared. Excellent, bushy plants. Sold in lots of 5 or more. Individually packed with ball of peat moss.		

PYRAMIDAL ARBORVITAE—Transplants		
All plants started from rooted cuttings to assure true strains. Compact, green.		
1-yr. T., 5 to 7 ins.	30.00	
2-yr. T., extra-heavy, field-grown, 10 to 15 ins.	90.00	

JUNIPER—Blue Pfitzer, hetzi glauca		
Improved Juniper with irregular spreading habit, fast growth, bluish color. Can be used extensively in landscape work. Excellent for foundation plantings.		
1-yr. T., 5 to 7 ins.	25.00	
2-yr. T., 6 to 10 ins.	65.00	
Field-grown		
2-yr. T., 10 to 15 ins.	90.00	
Heavy, field-grown		
*T.T., spread, 15 to 18 ins., \$2.25 each.		
*Field-grown, ornamental size. Extra fine. Sold in lots of 5 or more. Individually packed with ball of peat moss.		
JUNIPER—Irish		
1-yr. T., 4 to 6 ins.	25.00	200.00

JAPANESE YEW—Grown from seed		
Taxus cuspidata, capitata, upright, pyramidal. Extra-nice plants; excellent, fibrous roots.		
2-yr. S. (2-0), 3 to 6 ins.	\$20.00	\$150.00
4-yr. T. (2-2), 6 to 10 ins.	40.00	

JAPANESE YEW—Transplanted Rooted Cuttings—Heavy Type		
Taxus hispida, upright.		
1-yr. T., 5 to 8 ins.	25.00	175.00
2-yr. T., 8 to 12 ins.	40.00	300.00
Taxus brownii, upright.		
1-yr. T., 4 to 6 ins.	25.00	175.00
2-yr. T., 6 to 8 ins.	40.00	350.00
Taxus cuspidata, spreading.		
1-yr. T., 5 to 6 ins.	20.00	150.00
3-yr. T., 6 to 8 ins.	30.00	250.00
2-yr. T., 8 to 12 ins.	40.00	350.00
Taxus intermedia, spreading.		
1-yr. T., 4 to 6 ins.	25.00	175.00
2-yr. T., 6 to 8 ins.	40.00	350.00
Taxus cuspidata capitata, spreading. From side cuttings.		
2-yr. T., 6 to 8 ins.	30.00	250.00

JAPANESE HOLLY		
Excellent evergreen shrub and hedge. Hex convexa, transplanted rooted cuttings.		
1-yr. T., 4 to 6 ins.	20.00	175.00
Hex rotundifolia, transplanted rooted cuttings.		
1-yr. T., 5 to 6 ins.	20.00	175.00
2-yr. T., 6 to 8 ins.	30.00	250.00
Hex crenata hetzi		
Very shiny, convex-shaped leaf. Larger leaf than Convexa.		
1-yr. T., 4 to 6 ins.	20.00	175.00

CHINESE CHESTNUT, Blight Resistant Ching Chow Strain.		
Will bear large, sweet delicious nuts. Very fast-growing. Valuable as ornamental and shade, as well as for fruit. Grows 30 to 40 ft. tall. May be ordered in lots of 10 at the 100 rate.		
S., 10 to 18 ins.	30.00	150.00
S., 18 to 30 ins.	40.00	200.00

PIN OAK (Quercus palustris)		
Forms a symmetrical, pyramidal head with long pendulous branches. Foliage deeply cut, assumes brilliant red autumn color. Because of rapid growth, is much used for avenues and lawn specimens. May be ordered in lots of 10 at 100 rate.		
S., 6 to 12 ins.	12.00	60.00

RED OAK (Quercus rubra)		
Northern, hardy, rapid-growing timber and shade tree. Dark red fall foliage.		
S., 6 to 12 ins.	12.00	60.00

WHITE OAK (Quercus alba)		
S., 6 to 10 ins.	12.00	60.00

WHITE BIRCH—Betula		
S., 6 to 12 ins.	8.00	40.00
S., 12 to 24 ins.	12.00	60.00

HONEY LOCUST—Thornless		
6 to 12 ins.	6.00	30.00

AMERICAN ELM		
10 to 20 ins.	6.00	30.00

WHITE ASH		
6 to 10 ins.	5.00	25.00

SUGAR MAPLE—Hard Maple		
6 to 12 ins.	10.00	50.00

ROSA MULTIFLORA—Living Fence		
Graded 3 mm. and up.		
10 to 18 ins.	10.00	50.00

Many other Evergreens, Hardwoods, Ornamental and Shade Trees — Rhododendrons and Azaleas.

SEND FOR COMPLETE CATALOG AND WHOLESALE PLANTING LIST — also famous CHRISTMAS TREE GROWERS' GUIDE

"20 MILLION TREES A YEAR" became a recognized symbol of Musser Forests years ago when that volume was reached—annual production has since reached more than 35 MILLION TREES.

MUSSER FORESTS, INC.

Box 16-C
INDIANA, PA.

YOURS TO SAVE!

Your job's a lot easier when you USE STANDARD SPRAYS

When the health and beauty of trees, shrubs, ornamentals and lawns depends on *you*, you can depend on STANDARD. Choose STANDARD Sprays with confidence—count on Standard Oil for help on your specific pest control problems, too!

Elm Sprays

Destroy the insect carriers of Dutch elm disease and elm phloem necrosis. Specially selected xylene solvents for maximum safety to trees! Can be combined with dormant oils to save time, work and money.

STANDARD Elm Spray—The Midwest favorite! Emulsifiable 25% DDT concentrate containing Acme White Oil.

STANDARD Elm Spray-B—Emulsifiable 32.4% DDT concentrate containing acetone.

Dormant Oils

Control scale—destroy over-wintering forms of these insects.

STANDARD Dormant Spray Oil No. 1 (DENDROL)—the number one premium quality, conventional-type dormant spray oil in the Midwest!

STANDARD Superior Dormant Spray Oil—New! Based on New York State specifications for a superior type delayed dormant spray oil. *Saves money*—less spray material needed!

OTHER STANDARD PRODUCTS INCLUDE:

STANDARD 25% DDT Concentrate
STANDARD Malathion Spray
STANDARD 2,4-D Weed Killers
STANDARD Brush Killer

New Mosquito Killer!

If mosquito control is your problem, too, here's another *brand new* STANDARD Spray you'll want to try.

STANDARD Mosquito Fog Spray

An oil dilutable concentrate for use in thermal fog machines to control mosquitoes, flies, gnats and other flying insects.

- **More effective**—a combination of insecticides for quick, positive control.
- **Prevents coking**—a special coke inhibitor additive prevents carbon build-up . . . keeps nozzles clean . . . saves time, trouble and money.
- **Smells better, too**—a special masking agent provides more pleasant odor to spray.

For products, information and Standard Oil help on your specific pest control problem, contact your local Standard Oil Agent, or write direct to

STANDARD OIL COMPANY
(Indiana)

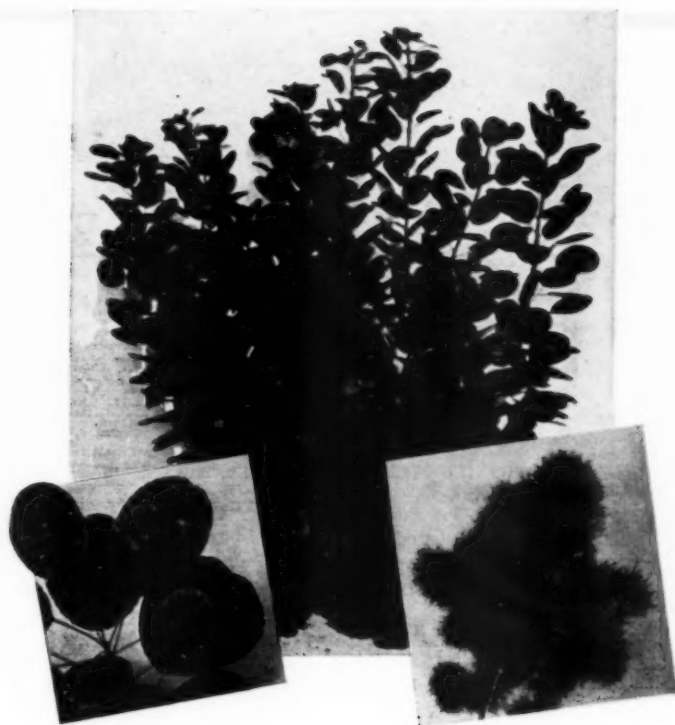
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You expect more from **STANDARD** and get it!

New! "Royal Purple" SMOKEBUSH

(Rhus Cotinus, Royal Purple)



Rhus Cotinus ROYAL PURPLE - New dark Purple-red Leaf Smokebush

There are several varieties of Purple Smokebush although Royal Purple is considered the very best. Several varieties of Smokebush have been tried out in the nursery with Royal Purple always turning out to be the most outstanding. I am convinced of this to the extent that it is the only one now being propagated in the nursery. Royal Purple keeps its rich dark purple reddish colored foliage from spring to late fall. In late summer the matured leaves show a mottled edge which is a light red edge around the

dark purple leaf. It is an outstanding plant in that it draws the attention of all who visit the nursery and is greatly admired for its brilliant foliage. The foliage is darker than any red Japanese Maple. The plant is adaptable for use as a lawn specimen especially in locations where the Japanese Maple is not hardy. Royal Purple is the only purple Smokebush to receive a Certificate of Merit from the Royal Horticultural Society. The branches make an excellent filler for bouquets, especially with Chrysanthemums.

2-3 ft., B.R., 2-5 branches, 1 to 99, \$1.75 each; 100 or more, \$1.50 each.

3-4 ft., B.R. & B&B, 1 to 24, \$3.50 each; 25 to 100, \$3.00 each.

Orders cannot be accepted for B&B stock which require boxing.

See reverse side for additional listings.

C. HOOGENDOORN, Nurseryman
NEWPORT, R. I.

LINING-OUT STOCK and LANDSCAPE MATERIAL

Lining-Out Stock

	Per 100 Each	Per 1000 Each
1500 <i>Acer palmatum atropurpureum</i> (Red Japanese Maple). Strong, 2-yr. grafts . . .	\$1.75	\$1.50
100 <i>Acer palmatum atropurpureum</i> Ossi Beni. 2-yr. grafts . . .	1.75	
500 <i>Azalea amoena</i> . 2-yr. tr. . . . .	.40	
500 <i>Azalea fedora</i> . 2-yr. tr. . . . .	.40	
500 <i>Azalea kaempferi</i> (low growing). 2-yr. tr. . . . .	.40	
1500 <i>Azalea Mollis</i> (red), (very hardy strain). 3-yr. tr. . . . .	.50	.45
1500 <i>Azalea Mollis</i> (yellow), (very hardy strain). 3-yr. tr. . . . .	.50	.45
1000 <i>Cornus florida rubra</i> (Red Flowering Dogwood). 1-yr. grafts, 12-18 in. . . . .	.75	.60
500 <i>Cotoneaster divaricata</i> . 2-yr. tr., branched, 12-18 in. . . . .	.30	.25

EXOCHORDA WILSONI

This plant was introduced into this country by the famous Dr. Wilson. It is a big improvement over *Exchorda grandiflora* as it blooms much heavier and the flowers are exceedingly fragrant.

400 2-yr. grafts, 18-24 in., from field rows, 75c.

500 <i>Fagus sylvatica riversi</i> (Rivers' Purple Beech). 2-yr. grafts	\$1.75	\$1.50
1500 <i>Forsythia, Spring Glory</i> . 1-yr. tr., softwood cuttings . . . . .	.18	.15
500 <i>Hydrangea hortensis</i> (hardy), deep pink, compact grower. 1-yr. tr. . . . .	.40	

HYDRANGEA PETIOLARIS

(Climbing Hydrangea)

An attractive vine which does equally well in shade or sun. Its foliage is bold, clean and shrub-like and a rich dark green color. Short spur branches are topped with white, fragrant, Hydrangea-like blooms during the summer and last for a considerable period. Climbing Hydrangea is one of the finest and choicest vines grown. It clings by rootlets to walls and trees without support and can be planted against rocks for a cover. 1500 rooted cuttings from 2½-in. pots, per 100, each 40c; per 1000, each 35c.

	Per 100 Each	Per 1000 Each
1500 <i>Juniper hetzi</i> . 2-yr. tr.	\$0.40	\$0.35
1500 <i>Juniper pfitzeriana glauca</i> . 2-yr. tr. cuttings . . . . .	.40	.35
500 <i>Pieris japonica</i> (<i>Andromeda japonica</i>). 3-yr. tr., 9-12 in. . . . .	.50	.45
5000 <i>Prunus tomentosum</i> (<i>Nanking Cherry</i>). Strong. 1-yr. sdgls. . . . .	.10	.07½
2500 <i>Pseudotsuga taxifolia glauca</i> (<i>Blue Douglas Fir</i>). 4-yr. tr. . . . .	.40	.35

TAXUS CAPITATA

Seed sown lightly. Plants grown with plenty of room in beds. 15,000 strong, 2-yr., selected sdgls., 4-6 in., per 100, each 15c; per 1000, each 12½c. 1500 4-yr. tr., 9-12 in., per 100, each 45c; per 1000, each 40c.

1500 <i>Taxus cuspidata</i> (spreading). 2-yr. tr.	\$0.45	\$0.40
1000 <i>Taxus intermedia</i> . 2-yr. tr. . . . .	.45	.40
1500 <i>Taxus thayeri</i> . 2-yr. tr. . . . .	.45	.40
1500 <i>Viburnum carlesi</i> . 2-yr. sdgls., 6-8 in. . . . .	.20	.17½
1500 <i>Viburnum carlesi</i> . 2-yr. sdgls., 8-12 in. . . . .	.30	.25

VIBURNUM CARLESI COMPACTA (New)

This is a compact form of *Viburnum carlesi* with dark green leaves and buds up very readily.

200 strong, 2-yr. grafts, field rows, per 100, each \$1.50.

1000 <i>Viburnum wrighti</i> . 2-yr. grafts, FR, 12-18 in., mail order size	\$0.75	\$0.60
1000 <i>Vitex macrophylla</i> . 1-yr. tr., SW cuttings, ideal for canning . . . . .	.30	.25

Landscape Material

	Per 100 Each	Per 1000 Each
1000 <i>Buxus sempervirens</i> (true) (<i>Boxwood</i>). Edging stock, 6-9 in.	\$0.60	\$0.50

CLEMATIS MONTANA RUBENS

(Pink Anemone Clematis)

A strong, vigorous, hardy variety thriving under most adverse conditions. Blooms profusely around Memorial Day. 600 3-4 ft. staked, B.R., per 100, each \$1.00; per 1000, each 90c.

HELLEBORUS NIGER - Christmas Rose

Suitable for mail order trade and to pot up for roadside stand sales. 3-yr. tr., blooming size, \$50.00 per 100; \$450.00 per 1000.

	Per 100 Each	Per 1000 Each
1000 <i>Pachystima canbyi</i> . 2-yr. tr., B.R.	\$0.50	\$0.45
500 <i>Prunus kwanzan</i> (<i>Japanese Flowering Cherry</i>). 2-3 ft., B.R.	1.50	
250 <i>Prunus maritima</i> (<i>Beach Plum</i>). 2½-3 ft., B.R. . . . .	.75	
1000 <i>Viburnum dentatum</i> . 18-24 in. B.R. . . . .	.45	.40
800 <i>Viburnum sieboldi</i> . Heavy, 2-2½ ft., B.R.	1.25	
400 <i>Viburnum wrighti</i> (true). 18-24 in., B.R.	1.50	
500 <i>Weigela rosea</i> . 18-24 in., B.R. . . . .	.25	
1000 <i>Weigela vanickei</i> . 18-24 in., B.R. . . . .	.25	

Prices are F.O.B. Newport, R. I. Terms: 2.10 - n. 30. 1 to 249 take the 100 rate—250 and up take the 1000 rate.

Complete List of Stock Mailed on Request

C. HOOGENDOORN, Nurseryman
NEWPORT, R. I.

leaved trees for both ornamental and functional plantings. On city streets and in other locations where harshly adverse conditions prevail, the sycamore maple is not a long-lived species, but the pleasing foliage of the cultivars makes them well worthwhile during their considerable period of practical service.

Gavaghan & Dobson, Rochester, N. Y., made the photograph reproduced on the cover. J. G.

WORLD'S FAIR GARDENS

Gardens planted to provide spring, summer and autumn floral displays and to represent different concepts of garden design are planned as a part of the Brussels world's fair, to be held April 17 to October 19, 1958. Two million plants of all kinds will decorate the fairgrounds, according to Rene Pechere, chief landscape gardener, and three flower shows are scheduled to exhibit special spring, summer and fall-flowering plants.

A garden of the four seasons will be divided into two sections to contrast the 16th century and the 20th century interpretation of the seasonal theme and to demonstrate that great traditions can be reconciled with modern taste. In the stylized Renaissance garden, covering 32,000 square feet, four symmetrical planting groups will represent the seasons, with swans swimming in ponds and lagoons of a winter garden and peacocks strutting among the flowers of a summer garden. The adjoining 20th century garden will repeat the seasonal theme in modern style and will exhibit contemporary garden uses of such materials as colored glass and plastic.

Over 7,200 square yards of the fairgrounds will be devoted to other formal gardens, including a Renaissance garden of fantasy, where playing fountains and animated ceramic dolls will be featured. In contrast to these formal plantings will be an English garden, with jonquils, artemisias, wild pinks, lavender and water lilies planted in calculated informality, and two natural parks, where tulips, narcissi, peonies, delphiniums, roses and lavender will be planted without apparent order to achieve a naturalized effect.

TURNING his hobby into a business, Leonard S. Czarnecki is starting Leonard's Nursery at 1300 Washington pike, Bridgeville, Pa.

DONALD MOFFET, Mount Arbor Nurseries, Shenandoah, Ia., is the newly elected president of the Iowa State Horticultural Society.



Brillion LANDSCAPE SEEDER



Close-coupled to your tractor, the Brillion works close to fence, building foundations . . . moves in and around corners and odd-shaped lots easily.



Instant seed shut-off makes seeding large home projects more practical. The Brillion seeds right up to drives and walks—cuts off seed delivery quickly, positively.



Shallow planting depth of 1/4" is controlled by closely spaced roller wheels. University tests show seed germination is best at this depth. The wheels also firm the soil.

40 times faster than hand seeding frees 4 men for other work

Time and labor economies come fast with a Brillion Landscape Seeder. One man . . . one tractor . . . one Brillion do the work of 5 hand laborers—and finish up to 40 hours work in just one.* Brillion gives you exclusive uniform seeding (all seeds 1/4" deep in a firm seedbed). And results are exceptionally good. Sturdy, near-perfect stands, even in dry spells when hand sowing often fails. This is a precision machine

that lasts for years, piling up savings on time and seed to make the cost actually low. Straight pull or 3-point hitch models . . . 5' 4" size. Contact your Brillion dealer.

*Write for owners' reports.

Brillion
IF BRILLION MAKES IT,
IT MUST BE GOOD

BRILLION IRON WORKS, INC., Brillion, Wis., Dept. SG-17-3

Please send me prices and literature on the Brillion Landscape Seeder.

Write your name and address in the margin.

LINERS

2¼-in. pots—except where noted. *Bed-grown, shipped bare-rooted. All plants are well established. 250 of one variety at 1000 rate.

	Per 100	Per 1000
BERBERIS		
Candidula	\$22.50	\$200.00
Julianae	20.00	185.00
Verruculosa	22.50	200.00
COTONEASTER		
Francheti	20.00	175.00
Repens	15.00	125.00
CUNNINGHAMIA LANCEOLATA—C. Glauca	25.00	225.00
DEUTZIA		
Gracilis	15.00	125.00
Gracilis rosea	17.50	150.00
EUONYMUS, alatus compactus	17.50	150.00

	Per 100	Per 1000
HEDERA, 75,000, 12 to 15-in. runners		
Baltic	\$17.50	\$150.00
Hahni	17.50	150.00
Helix (English Ivy)	15.00	125.00
Helix (Small-leaved English Ivy)	15.00	125.00

	Per 100	Per 1000
ILEX		
Cornuta femina	\$22.50	\$200.00
Cornuta burfordi	20.00	185.00
Crenata convexa	18.50	175.00
Crenata helleri	20.00	185.00
Crenata microphylla	20.00	185.00
Crenata microphylla erecta	20.00	185.00
Glabra	20.00	185.00
Opaca (from choice berry plants)	25.00	200.00
Opaca Croonenburg	25.00	200.00
Opaca howardi	25.00	200.00
JUNIPERUS pfitzeriana	20.00	185.00
LONICERA PILEATA YUNNANENSIS	17.50	150.00
MAHONIA aquifolium	20.00	185.00
OSMANTHUS		
Aquifolium	20.00	185.00
Fortunei	20.00	185.00
PHOTINIA		
Serrulata	20.00	185.00
Glabra	20.00	185.00
PRUNUS LAUROCERASUS		
Officinalis (English Laurel)	20.00	180.00
Schipkaensis	20.00	180.00
PYRACANTHA		
Bakeri (Red Berries)	20.00	185.00
Lalandi	20.00	185.00
Lalandi Royal	22.50	200.00
THUJA (Arborvitae)		
American nigra (compacta)	20.00	185.00
Bakeri	20.00	185.00
Pyramidalis	20.00	185.00
Woodwardi (Globe)	20.00	185.00
*VIBURNUM setigerum, 12 to 15 ins.	15.00	125.00

See other ad in this issue on Shade Trees.

	Per 100	Per 1000
EUONYMUS		
Coloratus, 2¼-in. pots	\$15.00	\$125.00
Ready for Landscape Use.		



Consult our catalog for many other items.

GRESHAM'S NURSERY

Ph.: BE 2-5689 (Day) - BE 2-5680 (Night)

R. F. D. 9, RICHMOND 25, VA.

OBITUARY

Edward Lehde

Edward Lehde, 77, founder and former owner of Edward Lehde Nurseries, Buffalo, N. Y., died recently at Buffalo after a long illness. Mr. Lehde retired in 1955, and the nursery and florists' business has been under family management since that time.

Chester H. Moon

Chester H. Moon, 72, died recently at Leavenworth, Kan. His nursery, at Leavenworth, specialized in the growing of peony, iris, gladiolus and dahlia plants, and Mr. Moon was a member of the Mid-America Dahlia Society.

James P. Harding

James P. Harding, founder of the Daybreak Nursery, Westport, Conn., died suddenly January 26 at a Norwalk hospital at the age of 78. Born at Newport, England, Mr. Harding worked as superintendent of private estates in the Westport area before opening his own nursery. A specialist in the growing of dahlias, he was known as the originator of the orchid dahlia.

Survivors include his widow, the former Elizabeth Hanbury, and four sons, Evan, William, Cyril and Lyn, the first three of whom are associated with the Daybreak Nursery.

DORMANT SPRAYS

Dormant sprays are effective in controlling overwintering stages of many insects and mites. Any spray applied to a plant before growth begins in spring is called a dormant spray. Most chemicals used during the dormant season will burn leaves and thus cannot be used during the summer, explains Dr. Robert E. Treece, extension entomologist at Rutgers University.

The most commonly used material is a dormant superior miscible oil. Oils are effective against the eggs of mites and aphids and overwintering stages of scale insects.

Do not spray maple, beech, hickory or walnut with oil, as they are easily injured. Spray on a dry, above-freezing, sunny morning. Be sure the plants are completely dormant.

Use five to eight tablespoons of the proper oil in a gallon of water. This will make a 2 to 3 per cent emulsion. The oil should be thoroughly emulsified or injury may result.

Make
Linoleum
Counters
Siding
Horticulture

Strength and Nutrition...

The Magic Formula for

New BIRD PEAT POTS

Bird research scientists performed real magic in developing the new Bird Peat Pot — rugged for easy handling, nutrient treated for healthy plants. Special formula gives added rigidity to help prevent chipping during shipping and handling. Yet roots penetrate freely. Rugged rim provides extra strength at the most vulnerable area — to protect top from breakage. Water won't run out through chipped off openings. You save watering time — and you're sure plants get sufficient moisture. Pot is nutrient saturated to stimulate healthy and speedy premium growth.

You'll find the new Bird Peat Pot a real labor-saver on plants which you transplant to field, bench or larger selling containers. (For annuals, bedding plants and vegetable plants intended for resale prior to transplanting, Bird Vita-Green Pots are extra strong to withstand handling involved in retail selling.)

The new Bird Peat Pots are light, strong, inexpensive. They'll help you get better plants, with less work, at more profit. Order from your distributor or send coupon for complete information about this and other Bird Containers.

PRICES

Size	List Price Per Thousand	Quantity Packed Per Case	Gross Weight (lbs.) Per Case
2 1/4"	\$ 7.00	2,000	22
3"	\$13.00	2,000	38

See your distributor for delivered prices

Bird Peat Pots for free root penetration. Bird Vita-Bands, the nutrient-treated plant bands. Bird Perennial Pots for longer selling season. Bird Vita-Green Pots for small plant retail sales. Bird Gro-Tainer Flats for volume sales.

Profits grow like magic in Bird containers

Makers of Quality Products since 1795
Linoleum, Vinyl Floor Coverings, Vinyl Wall &
Counter Coverings; Asphalt Roofing, Insulated
Sidings; Fibre & Paper Boxes; Railroad Tie Pads;
Horticultural Products



Bird & Son, Inc., Dept. AN
East Walpole, Massachusetts

Please send me free literature, including prices and growing
instructions, on the following:
(Check items on which you want information.)

- ☐ Peat Pots ☐ Perennial Pots ☐ Gro-Tainer
☐ Vita-Bands ☐ Vita-Green Pots

Name.....

Street & No.....

City & State.....

Beginning in the Nursery Business

By John J. Pinney

Chapter 8. Keeping Records

Keep records. Do not guess or depend on your memory; know what you are doing.

What records should you keep? A good rule to follow is to keep only those records that will be useful to you and will be used. There are some records that you must keep whether you want to or not. These are records that are required by various government agencies, and they will be mentioned in the course of this chapter. There are other records that you may think will be useful to you. Before you begin to keep such records do some hard thinking about their significance to your business. Your book work will be onerous enough without making it more burdensome by keeping meaningless records.

For many years a nurseryman had each man who worked for him fill out a form every day, telling what jobs he performed and how many hours he spent on each one. These forms kept piling up until it became a problem to know how and where to file them. The nurseryman must have had some idea about what he wanted the information for, but he never got around to using it and he finally discontinued the practice.

If you are growing your own stock, keep a record of what you planted; then you will know what percentage survived. You may be surprised to find that the number of merchantable plants harvested compared with the number planted usually represents a low percentage. Then when you hear a fellow nurseryman boast about the good stands he got, you cannot help being a little skeptical.

Field Index

A field index is a record of the location of stock growing in the nursery row. It is the record that enables you to find any variety, even if the marking stakes are lost. The simplest method is to number the rows and indicate the variety or varieties in each row. Some nurserymen divide their fields into blocks or areas, giving them names, numbers or letters. This simplifies the keeping of accurate indexes. It sometimes helps to draw a map of the nursery showing the location of the various blocks.

It is just as essential to record all purchases. Make a carbon copy of your purchase order and file it in a loose-leaf binder, alphabetically un-

der the name of the firm from which the purchase is made. Multiple-copy order books are available at any stationery store.

Keep a stock record so you will know what you have to sell and how much you have sold. This is the record most often neglected by nurserymen, even those who have been in business for many years. I have in mind one nurseryman who does a considerable volume of business, but who is usually in hot water because he never knows for sure what he has bought, has on hand, has sold, has in surplus or is short of. He depends upon his memory, which is not too good. Were it not for the fact that he enjoys a virtual monopoly in his territory, he would have tough going.

Stock Records

Stock records need not and should not be complicated. The simplest type consists of a book with pages ruled in columns. Divide the pages into sections, one section for each

group of nursery stock that you handle, such as shrubs, shade trees, evergreens, fruit trees, roses, etc. Set aside one column for each variety and grade. For example, if you handle *Spiraea vanhouttei* in 3 to 4-foot and 2 to 3-foot sizes, write "*Spiraea vanhouttei*, 3 to 4 feet," at the top of one column and "*Spiraea vanhouttei*, 2 to 3 feet," at the top of another. Immediately beneath the name and grade write the quantity of stock available, including any stock you may have in the nursery and any you have bought. Indicate the field or block in which the stock is growing and the source of purchased stock. A notation of the cost price will be found a great convenience. If there is more than one entry in a column, add the entries, write the total and draw a line above and below these figures to make them stand out as your supply.

Enter your sales in the spaces below the supply. A good plan is to carry a cumulative total. Let us sup-

MAINE-GROWN EVERGREENS

For

LINING-OUT STOCK AND CHRISTMAS TREES

Seedlings for Spring Planting SEEDLINGS

(Not Guaranteed)



Per 1000

Douglas Fir, 3-yr. seedlings (3-0), 3 to 5 in. \$25.00

Mugho Pine, 3-yr. seedlings, (3-0), 3 to 5 in. 25.00

Colorado Blue Spruce, 3-yr. seedlings (3-0), 3 to 5 in. 30.00

Black Hills Spruce, 3-yr. seedlings (3-0), 3 to 5 in. 20.00

White Spruce, 3-yr. seedlings (3-0), 4 to 8 in. 25.00

WRITE FOR QUOTATIONS ON TRANSPLANTED STOCK

TERMS

Cash with order, or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price. No extra charge for boxes or packing.

WESTERN MAINE FOREST NURSERY CO.,

Dept. AN-338
Fryeburg, Maine

QUALITY LINERS

In Wide Assortment
NURSERY SALES, INC.

525 Stevens Ave., P. O. Box 295

RIDGEWOOD, N. J.

Gl. 4-6848

GROWERS

EVERGREEN TREE LINING-OUT STOCK

Write for free price list.

SUNCREST EVERGREEN NURSERIES

P. O. Box 305-F

HOMER CITY, PA.

PACIFIC COAST NURSERY

Specializing in
**FRUIT TREE
SEEDLINGS
and
SHADE
TREES**



Established 1914 by
JOHN HOLMASON

**MYROBOLAN
MAZZARD
MAHALEB
APPLE
PEAR
and QUINCE
SEEDLINGS**

Present Owners: JOHN HOLMASON and MARTIN and J. P. HOLMASON

Rt. 1, Box 114-B



Portland, Oregon

Dear Fellow Nurserymen:

In a few days I plan on leaving for Europe. My son Martin will accompany me to New York to see me off and will stop to see a few of our customers on his return trip. However, he cannot make many stops at this time, as his time is limited. The purpose of the European trip is to visit five or six countries to make arrangements for securing different kinds of seeds to plant in our nursery.

I also want to stop for a short visit in Bucharest, Romania, to visit my people. I expect to be away for about two months, and, if all goes as planned, my wife will meet me in New York city on my return to the states. We will stop off at several cities on our way home.

We are about through with the shipping for this winter and we have sent out 35 cars of seedlings, shade and flowering trees. We now have one of the largest fruit tree seedling nurseries in the world and ship to every state in the union. BUT, if it weren't for the help of God, my wife, my sons Martin and John, and our good customers, this would not have been possible. I feel very grateful indeed and want to take this opportunity to thank each one of you for the business that you have given us—we do appreciate it so very much.

I thought that perhaps our customers and friends would be interested to learn of my plans for the next few months and to know that I haven't fully retired, even if I am 78 years old.

Sincerely yours,

John Holmason

Pacific Coast Nursery



There's a pre-sold market for the **MORAINE[®] LOCUST**

*guaranteed thornless
and seedless*

New sales and new profits are yours when you sell the Moraine Locust. For here is a shade tree you can recommend with confidence. Scientific propagation and 23 years of growth experience has proven the Moraine Locust to be absolutely free of thorns and seed pods. This patented tree (patent No. 836) is guaranteed thornless and seedless for life! Here's a real sales plus that means extra profits for you.

Luxuriant solid green foliage

Maintains its solid green foliage throughout the leaf season. Provides a healthy green live appearance so desirable during the dry period of the hot summer months.

Graceful shape

Grows to a wide spreading vase shaped tree of exceptional beauty.

Fast hardy growth

MORaine Locust has a hardwood cellular construction that makes it resistant to storms. Grows to a height of 25 to 30 feet in just 10 years. Transplants easily—withstands drought—grows luxuriantly in almost every climate.



National Advertising Program

The MORaine Locust is advertised in leading flower and garden publications to help pre-sell your customers. Fame of the MORaine Locust has spread rapidly due to the tree and to enthusiastic acceptance by the nation's leading nurseries.

Plan now to get your share of this fast growing and profitable business by stocking more MORaine Locust trees now. Contact one of the MORaine Locust Licensed Propagators.

MORaine[®] LOCUST
The aristocrat of shade trees

*This variety of Honey Locust tree is covered by U. S. Plant Patent No. 836 and is being handled under license from The Siebenthaler Company, owner of the registered trade-mark "Moraine" in the United States and Canada.

MORaine LOCUST LICENSED GROWERS

BROOKDALE-KINGSWAY, LTD.
Bowmanville, Ont., Canada

COMMERCIAL NURSERIES
Decherd, Tenn.

DOTY & DOERNER, INC.
Portland 19, Ore.

THE GREENING NURSERY CO.
Monroe, Mich.

HILLENMEYER NURSERIES
Lexington, Ky.

HINSDALE NURSERIES
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ILGENFRITZ NURSERIES, INC.
Monroe, Mich.

JACKSON & PERKINS CO.
Newark, N. Y.

KELLY BROS. NURSERY
Dansville, N. Y.

MARSHALL NURSERIES
Arlington, Neb.

A. MCGILL & SON
Fairview, Ore.

MILTON NURSERY CO.
Milton-Freewater, Ore.

MOUNT ARBOR NURSERIES
Shenandoah, Ia.

PRINCETON NURSERIES
Princeton, New Jersey

SHENANDOAH NURSERIES
Shenandoah, Iowa

THE SIEBENTHALER CO.
Dayton, Ohio

SNEED NURSERY CO.
Oklahoma City 1, Okla.

THE WILLIS NURSERY CO.
Ottawa, Kan.

pose that the first sale is for 10 plants. Write down the figure "10." The next sale might be for eight plants. Instead of writing "8" write "18." Thus the last figure will always represent the total sales on that item. A glance will show how your sales compare with your supply.

Sales Records

In a cash-and-carry business it may not be practical to record each sale as it is made, but it is a good idea to make out a sales slip for each sale. Then you will have the name and address of the customer to add to your mailing list. Your guarantee or nonwarranty can be printed on the back of each slip. Once a day or every few days you can record sales by transferring figures from sales slips to stock records. At the end of the season, count the stock remaining in your salesyard. If your records have been kept with reasonable accuracy, the figures you get by counting the remaining stock should correspond closely to the figures obtained by subtracting recorded sales from stock.

Those who do not care to go to the trouble of making out sales slips or recording each sale can adopt a much simpler but less accurate method of determining sales. Record the amount of stock of each variety and grade that you produced or bought and have available for sale. At the end of the selling season take an inventory of what is left. The difference between the two figures will give you a fairly good idea of what you sold.

In the agency and mail-order businesses it is essential to keep a perpetual inventory. This merely means that you record your sales just as fast as you make them, so that you will know at all times how much remains unsold. Oftentimes it is not possible to replenish your supply of some varieties, and you can cut off sales on such items as soon as you have sold your stock. If the supply on the market is plentiful, you can buy as you need it, without danger of overbuying.

Records Guide Buying

One of the most important uses of a stock record is the basis it supplies for intelligent buying. After stock records have been kept for a few years, they present an accurate picture of the trend in your sales and the volume you can reasonably expect in any variety. You may be surprised to discover that your sales of some varieties are so small it does not pay you to stock them. Do not hesitate to discard such varieties. On the other hand, if you sell out of an

LILACS FOR AMERICA

Report of 1953 Lilac Survey Committee of the American Association of Botanical Gardens and Arboreta. Alphabetical list contains about 30 species and 800 varieties. Shows color classification, originators, introducers and botanical authors. Sources of supply are keyed. 100 varieties recommended. 48 p. (1953)

Postpaid \$1.00

AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

Products That Sell Better in Your Nursery or Garden Store are Advertised in Flower Grower

THE HOME GARDEN MAGAZINE

Du Pont, a major supplier of garden chemicals, takes care that your best customers, FLOWER GROWER'S 400,000 gardening families, are reached and sold with specially designed advertising because...

Flower Grower readers are the
*FIRST TO ACT! FIRST TO BUY!
FIRST TO INFLUENCE OTHERS
TO BUY FROM YOU!*

Here is the record-breaking promotion created to help you by going direct to the center of your market in FLOWER GROWER, the nation's number 1 home garden magazine!

EIGHT PAGES IN FULL COLOR in the April issue of FLOWER GROWER, designed to give technical information in easy-to-read form to save your time and help you make sales! Supporting ads in other months and in other garden publications! Store displays to tie in with the advertising promotion!

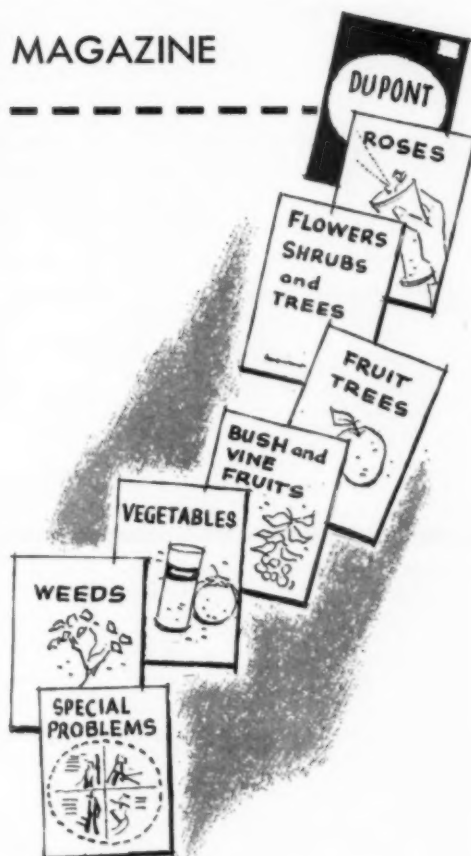
P. S. Find out how you can put FLOWER GROWER sales power to work for you and take advantage of this outstanding Du Pont promotion to help you sell more gardening supplies this year! See your Du Pont distributor, or write direct to:
E. I. du Pont de Nemours & Co. (Inc.), Garden Products Section,
Wilmington 98, Del.

Flower Grower

THE HOME GARDEN MAGAZINE

2049 Grand Central Terminal,

New York 17, N. Y.



The plants and products written about and advertised in **FLOWER GROWER THE HOME GARDEN MAGAZINE** over the last 44 years have helped make the nursery and garden industry a great part of American living.

INTRODUCTORY "SPRING SEASON" SALE

Now available from our new 200-acre nursery—large quantities of top quality landscape-size trees and shrubs for the Spring season. *Exceptionally Low Priced for Peak Profits! We'll ship car or trailer.*

Betula Alba (low branch)
6 to 7 ft., 7 to 8 ft.

Ilex Crenata
2 to 2½ ft.

Ilex Crenata Convexa
15 to 18 inches, 18 to 24 inches,
24 to 30 inches

Ilex Glabra
15 to 18 inches, 18 to 24 inches

Euonymus Japonica
15 to 18 inches, 18 to 24 inches

**Euonymus Japonica
(Silver King)**

Enkianthus Campanulata
24 to 30 inches

**Japanese Cherry Prunes
Kwanzan**

Cornus Florida (White)
5 to 6 ft., 6 to 7 ft., 7 to 8 ft.,
for curb planting: 8 to 10 ft.

Malus Eleyi
5 to 6 ft., 6 to 7 ft.

Malus Hopa
5 to 6 ft., 6 to 7 ft.

Cercis Canadensis
5 to 6 ft.

Albizia Julibrissin
6 to 7 ft.

Abelia Grandiflora (Heavy)
2 to 3 ft.

Leucothoe Racemosa (Heavy)
15 to 18 inches

IMPERIAL NURSERIES

Miller Place, Long Island, N. Y., (off Route 25A)

Write for Quotation to: Ben Kasper, 3866 Hempstead Turnpike, Levittown, Long Island
PErshing 1-3636

item early in the season the chances are that you will be justified in producing or buying it in larger quantities.

Varieties of nursery stock vary in popularity just as do fashions in clothes or tastes in literature. A variety popular 10 years ago may be almost forgotten today. Usually this change is slow and almost unnoticed. Perhaps it is most marked in varieties of fruit. Old-established nurseries which handle large quantities of fruit trees and plants may be offering today an assortment almost totally different from the one listed a generation ago. A carefully kept stock record will enable you to discover these trends more quickly and to adjust your production or purchases to meet them.

Any wholesale nurseryman who has salesmen on the road can tell you how careless many of his customers are in making purchases. The conversation between salesman and buyer may go something like this:

Salesman: "How many *Philadelphus virginialis* do you want, Mr. Brown?"

Mr. Brown: "Oh, let's see; I guess I'll take about 50."

Salesman: "Okay. What size?"

Mr. Brown: "The 3 to 4-foot size. No, make it 2 to 3-foot, that is big

enough. Wait a minute. Don't write that down yet."

Then he yells to Bill in the other room: "Say, Bill, will you run out in back and see if we have any *Philadelphus virginialis* left over, how many and what sizes?"

Bill: "It's too muddy out there now. I would get mired down. I will have to wait until it dries up a little."

Long-Term Records Useful

The end result is that the salesman may not get an order for this item which might possibly be needed or he may be given an order when it is not needed at all. Too many purchases of nursery stock are based on guesses of one's needs, colored a little by memories of specific sales or surpluses.

Your stock record not only will make buying a simple matter, but will enable you to buy intelligently. No record can eliminate all errors in buying, because isolated sales of unusually large numbers of certain varieties will throw the records out of balance for the season. The same thing happens when your supply is abnormally low for a season. But over a period of years your stock record will give you the most accurate picture of your needs that it is possible to get.

Cost Accounting

The question is often asked: "Has a practical system of cost accounting been devised for the nursery business?" Reluctantly we must answer in the negative. If a nurseryman were

ILEX CONVEXA

Hardy, northern-grown stock. Heavy, well-sheared plants with exceptionally good color. Truck or trailerload.

18 to 24 ins.....	\$3.00
24 to 30 ins.....	3.75
30 to 36 ins.....	5.50
3 to 3½ ft.....	6.50

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

Write today for
your **FREE COPY**



Learn how you can now get
THILCO'S top quality Nursery Wraps
in "small" nursery quantities

Thilco's new "small quantity" order plan makes it possible for nurseries, *large or small*, to take full advantage of the superior protective qualities these "tailor made" nursery papers offer.

Now, two of Thilco's *top grade* papers, formerly restricted to "large" users, are available in quantities as low as 500 lbs. per size, in rolls or sheets and priced competitively with so-called standard grades — A choice of either a Wet Strength, Asphalt Laminated Wrap or a Black Polyethylene Coated Wrap.

Complete details, samples, descriptions plus a handy quantity calculator are contained in the above illustrated brochure. Write for your copy today or mail this advertisement with your name and address on the margin.

**THERE'S A THILCO
NURSERY WRAP FOR
EVERY NEED
in Rolls, Sheets, Tubes
and Bags**



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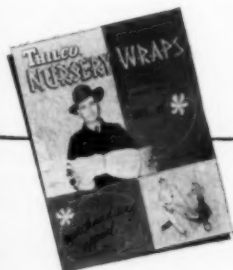
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Learn how Thilco wraps can better protect your product and save you money. See how others use them to added advantage by ordering them **PRINT-DECORATED** for advertising identification.

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Functional Papers

**THILMANY PULP & PAPER COMPANY
KAUKAUNA • WISCONSIN**

NEW YORK • CHICAGO • DETROIT • CINCINNATI

RHODODENDRON

We are growing over 100 named hybrid varieties on their own roots. These are available in sizes ranging from liners to 4 ft., heavy, field plants. Our plants are exceptionally nice; most varieties are well budded. If you need rhododendron, we have the finest. Efficient, volume production enables us to quote these low prices. Come, see them.

ROSEUM ELEGANS

12 to 15 ins.....	\$1.75
15 to 18 ins.....	2.50
18 to 21 ins.....	3.00
21 to 24 ins.....	4.00
24 to 27 ins.....	5.00
27 to 30 ins.....	5.75
2½ to 3 ft.....	7.00
3 to 3½ ft.....	8.00

REDS: America, Dr. Dresselhuys, F. D. Godman, Ignatius Sargent, V. W. Poeiman, John Walter, etc.

12 to 15 ins.....	\$ 2.75
15 to 18 ins.....	3.25
18 to 21 ins.....	4.00
21 to 24 ins.....	5.50
24 to 27 ins.....	6.75
27 to 30 ins.....	8.50
2½ to 3 ft.....	10.50
3 to 3½ ft.....	12.00

Other varieties of pink and red as well as whites, purples, etc., as listed in our spring, 1958 catalog.

Also available in quantity; truck or trailerloads: **PIERIS JAPONICA**, 15 to 18 ins. to 2 to 2½ ft.; **ILEX CONVEXA**, 18 to 24 ins. to 3 to 3½ ft.; **PINK DOGWOODS**, well-budded, 3 to 4 ft. to 7 to 8 ft.

For the Finest in Plants—Give Us a Try

ANGELICA NURSERIES

Growers of fine plants

R. D. No. 1

Mohnton, Pa.

ROSES

Central Pennsylvania Grown
2-yr.-old, field-grown plants.

Hybrid Teas—Floribundas—Climbers

EVERGREENS

Landscape Material

Twice transplanted, regularly sheared.
Young salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

Write for wholesale price list.

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624 Colonial Club Dr.
Harrisburg, Pa.

Phone: Harrisburg, KI 5-5417
5 miles east of Harrisburg on U. S. Rt. 22, turn north at Inn 22, nursery 1 mile north of U. S. Rt. 22.

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

TREES FOR AMERICAN GARDENS
by Donald Wyman. 745 recommended trees, 1600 species and varieties. **\$7.50.**
American Nurseryman Chicago 4.

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IVAN R. CONGDON NURSERY

North Collins, N. Y.

growing only one item, such as rose-bushes, it might be possible to determine the total cost of production and break it down to the cost per bush.

Most nurserymen, however, grow many varieties of plants. They are propagated in various ways, by grafting, from cuttings and from seeds. They are planted together in the same fields, oftentimes more than one variety in a row. The stands are not uniform; some varieties survive better than others. Certain kinds of plants require special attention, such as pruning, shearing and staking, that has to be done with skilled labor.

All plants do not become marketable at the same age, and some of them have to be kept in the field for a longer time than others. There are unavoidable losses in harvesting because of broken roots, scarred stems, etc.

One has to give but little thought to this matter to appreciate the difficulties involved in charging to each variety and grade the costs incurred in propagating, planting, cultivating, spraying, pruning, digging and grading. The nurseryman who buys all of his nursery stock has a distinct advantage, because he knows exactly how much it costs.

Tax Figuring

All businessmen are required by federal law to keep books for income tax purposes. In some states the same requirements hold because of state income taxes. As one just starting in business, you have the choice of the basis on which to keep your books. You may elect the accrual method or the cash method. The following is quoted from a publication of the internal revenue service:

"Cash method means that all items of taxable income actually or constructively received during the year (whether in cash or in property or services) and only those amounts actually paid during the year for deductible expenses are shown. Income is constructively received when it is credited to your account or set aside for you and may be drawn upon by you at any time. Uncashed salary or dividend checks, bank interest credited to your account, matured bond coupons and similar items which you can immediately turn into cash are constructively received even though you have not actually converted them into cash.

"The accrual method means that you report income when earned even if not received and deduct expenses when incurred even if not paid within the taxable period.

"The method used in keeping your

Prevent Weeds

with

CRAG
BRAND

Sesone

HERBICIDE-1

Use this sample to kill weed seeds as they sprout.
See for yourself how CRAG Sesone:

SAVES LABOR: Reduces hoeing, cultivating.

INCREASES YIELDS: Stops competition from weeds for plant food and moisture.

IS SAFE: Does not damage foliage nor harm most well-established plants.

Is successfully used by thousands of growers for preventing weeds in Nursery Stock, Strawberries, Peanuts, and certain other crops.

This Sample
will treat
200 square feet
of soil

DIRECTIONS ON BACK



Get Your Free Sample Now!

Try a free sample of CRAG Sesone on 200 square feet of your nursery stock established a year or more. A trial will convince you that the easiest, least expensive, and most satisfactory way to control weeds is to prevent them from getting a start.

CRAG Sesone prevents weed seeds from germinating—eliminates most of your expensive hoeing and hand-weeding.

You spray Sesone right over the tops of most nur-

series plants established a year or more. It will not burn the leaves of plants listed on the label because Sesone does not become active until it makes contact with moist soil. One application following a clean cultivation keeps out most annual and broadleaf weeds for three to six weeks. Sesone can be used in spring, summer, or fall, and it will not build-up in the soil.

Read the label on the package. See how Sesone stops weeds before they start.

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for your

Free Sample

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are trademarks of
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Division of Union Carbide Corporation
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CARBIDE**

Please send me a free sample of CRAG Sesone, enough to treat 200 sq. ft.
I grow ☐ ornamental shrubs ☐ forest trees ☐ bulbs and perennial flowers.

NAME _____

ADDRESS _____

CITY _____

STATE _____

Quality Seedlings and Transplants

PINE — SPRUCE FIR — HEMLOCK

	Per 100	Per 1000
SCOTCH PINE (Austrian Hill)		
2-yr., S., 4 to 6 ins..	\$ 5.50	\$ 30.00
3-yr., T., 3 to 6 ins..	9.00	60.00
4-yr., T., 5 to 10 ins..	10.00	70.00
SCOTCH PINE (German)		
2-yr., S., 4 to 6 ins..	6.00	32.50
SCOTCH PINE (French)		
2-yr., S., 2 to 4 ins..	2.50	12.50
2-yr., S., 4 to 6 ins..	5.00	27.50
SCOTCH PINE (Riga Rigensis)		
2-yr., S., 4 to 6 ins..	5.50	30.00
AMERICAN RED PINE		
2-yr., S., 2 to 4 ins..	5.00	25.00
3-yr., S., 5 to 10 ins..	5.50	30.00
3-yr., T., 3 to 6 ins..	6.50	40.00
4-yr., T., 4 to 8 ins..	7.50	50.00
PONDEROSA PINE		
2-yr., S., 3 to 5 ins..	5.00	25.00
AUSTRIAN PINE		
2-yr., S., 2 to 4 ins..	5.00	25.00
3-yr., S., 5 to 10 ins..	6.50	40.00
MUGHO PINE , sheared		
3-yr., S., 4 to 8 ins..	6.50	40.00
3-yr., T., 3 to 4 ins..	9.50	65.00
4-yr., T., 4 to 8 ins..	12.00	90.00
WHITE PINE		
2-yr., S., 3 to 4 ins..	5.50	30.00
3-yr., T., 3 to 6 ins..	6.50	40.00
COLORADO BLUE SPRUCE , from blue seed trees		
2-yr., S., 3 to 6 ins..	6.00	35.00
3-yr., S., 5 to 10 ins..	7.50	50.00
3-yr., T., 3 to 6 ins..	9.00	60.00
4-yr., T., 4 to 8 ins..	11.00	80.00
5-yr., T., 8 to 12 ins..	15.50	120.00
NORWAY SPRUCE		
2-yr., S., 4 to 6 ins..	5.50	30.00
3-yr., S., 6 to 12 ins..	6.50	40.00
3-yr., T., 4 to 9 ins..	7.50	50.00
4-yr., T., 6 to 10 ins..	9.00	60.00
5-yr., T., 8 to 14 ins..	10.00	70.00
BLACK HILLS SPRUCE		
3-yr., T., 3 to 6 ins..	6.50	40.00
DOUGLAS FIR , blue Colorado seed		
2-yr., S., 3 to 6 ins..	6.50	40.00
3-yr., T., 3 to 6 ins..	8.50	55.00
DOUGLAS FIR , gray Columbia seed		
2-yr., S., 3 to 6 ins..	5.00	25.00
3-yr., S., 5 to 12 ins..	6.50	40.00
4-yr., T., 4 to 6 ins..	9.00	60.00
CONCOLOR, or WHITE FIR		
2-yr., S., 3 to 6 ins..	7.00	45.00
CANADIAN HEMLOCK		
3-yr., T., 3 to 6 ins..	10.00	70.00
4-yr., T., 4 to 8 ins..	11.00	80.00
5-yr., T., 6 to 12 ins..	15.50	120.00
AMERICAN ARBORVITAE		
4-yr., T., 6 to 12 ins..	13.00	100.00
6-yr., T., 12 to 20 ins..	20.00	150.00
CHINESE ARBORVITAE		
3-yr., S., 5 to 12 ins..	9.00	60.00

All prices are F.O.B. shipping point. Cash or 50 per cent deposit with all orders. Balance will be sent C.O.D. When entire payment accompanies order a 2 per cent cash discount is allowed.

Many other nursery items—shrubs, shade and flowering trees, ornamentals, reforestation stock, etc. Our big 1958 catalog free on request; send for it today.

Pikes Peak Nurseries

P. O. Box 670 — Dept. A
Indiana, Indiana County, Pa.

records may be the cash receipts and disbursement method or an accrual method so long as income is clearly reflected."

Cash Basis Recommended

In general the cash basis of operation is to be recommended for the nurseryman. Keeping books on the cash basis is a simple matter compared to the accrual method. Which ever method you choose you should feel sure it is the right one for you, because after you have adopted one or the other you cannot change without permission of the Treasury Department. Usually that is difficult to obtain.

At the time you set up business and start a set of books you must also decide upon your fiscal year. This refers to that period of time for which you will report your income for federal income tax purposes. This can correspond to the calendar year or you may choose a different period of 12 months. It could be from September 1 to August 31, or June 1 to May 31. It will be to your advantage taxwise to attempt to choose a period that ends when your profits appear to be the lowest. Like your system of bookkeeping, your fiscal year cannot be changed without permission of the Treasury Department.

Tax Information Sources

It is suggested that you send for copies of the internal revenue service publications entitled "Agricultural Employes Social Security Tax Guide, Circular A" and "Employers Tax Guide, Circular E." These can be obtained from the district director of internal revenue or from the superintendent of documents, government printing office, Washington 25, D. C.

Unless you are experienced in bookkeeping, it is advisable to have the aid of an accountant in setting up your books. The expense of opening a set of simple books is not great, and the peace of mind that comes with the knowledge that you are doing things right is worth a lot. Make your books as simple as possible, so that the task of keeping them will not become distasteful or the cost too high.

There are several state and federal requirements you must take into consideration if you expect to employ any help. Minimum wages and hours, unemployment compensation taxes, social security taxes, federal withholding taxes and workmen's compensation (accident insurance) are some of them. A well-informed accountant can give you all of this in-



PRINCETON NURSERIES

A very complete line of quality ornamental stock. In addition to our regular assortment we are now producing many of the smaller and lower-growing trees, including:

Crataegus cordata (Washington Thorn). Grown with single, straight trunks and shapely heads, available in 4 to 5 and 5 to 6 ft.

Crataegus mollis (Downy Hawthorn). Single, straight trunks and excellent heads in 5 to 6, 6 to 7 and 7 to 8 ft.

Crataegus oxycantha pauli (Paul's Scarlet Thorn). Straight trunks, full tops, 4 to 5, 5 to 6 and 6 to 7 ft.

Many other smaller-growing varieties are available.

Come to see us.

Write for catalog.

Send your Want List.

PRINCETON NURSERIES

Princeton, N. J.

Phone: WALnut 4-1776

FOR SPRING SHIPMENT

- 1200 *Acer palmatum atropurpureum*, seed-grown, 3-yr., T.
- 900 *Acer palmatum atropurpureum*, 1-yr., grafts
- 8000 *Barberry, thunbergi atropurpurea*, 2-yr., S., 6 to 9 ins.
- 2000 *Chamaecyparis plumosa aurea*, 2-yr., T.
- 3000 *Cornus florida*, 1-yr., S., heavy.
- 1000 *Cornus florida Prosser*, grafts, from pots
- 1000 *Ilex crenata latifolia*, 2-yr., T.
- 5000 *Taxus cuspidata capitata*, 2-yr., T.
- 2500 *Tsuga caroliniana*, 2-yr., T.

VERKADE'S NURSERIES NEW LONDON, CONN.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

DEERFIELD NURSERIES DEERFIELD, N. J.

For Quality Stock— RICKERT NURSERIES

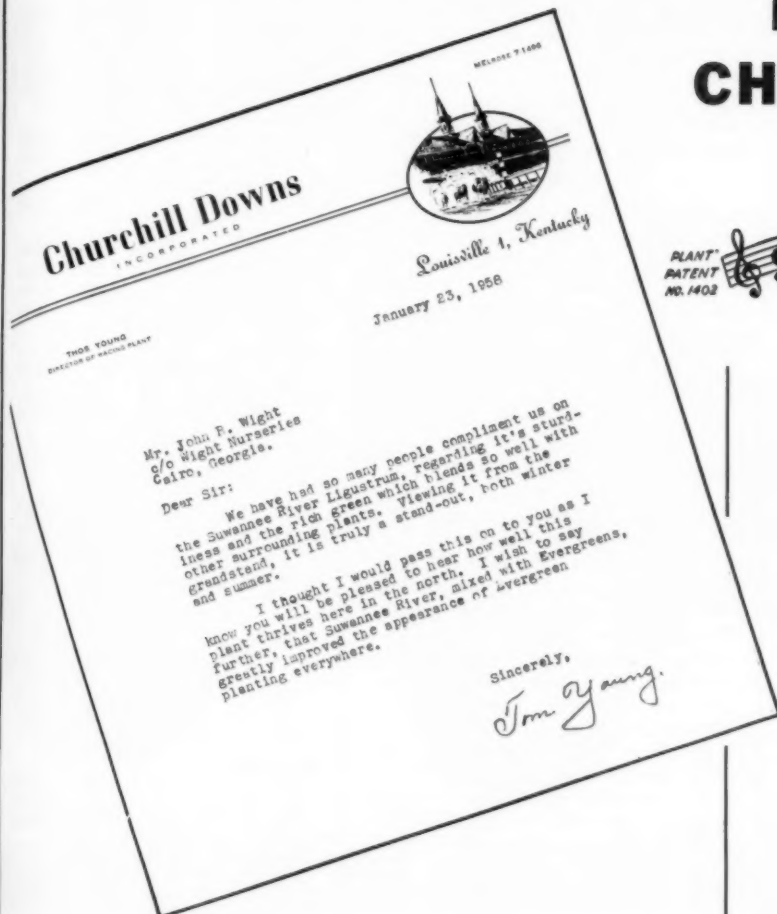
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CHURCHILL DOWNS

home of
CHAMPIONS
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Magnolia Gardens & Nurseries
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Morse Bros.
Chattanooga, Tenn.

Riverside Nursery
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Semmes Nurseries, Inc.
Semmes, Ala.

Southern States Nurseries
Macclenny, Fla.

Verhalen Nursery Co.
Scottsville, Tex.

Westminster Nurseries, Inc.
Westminster, Md.

Winter Haven Nurseries
Winter Haven, Fla.

Let Suwannee River be a winner for you, too. Its ability to withstand cold — far beyond most broad-leaved evergreens — its deep green foliage and compact habit of growth, all add up to profit for you and satisfaction for your customers.

Available now in a wide selection of grades in field-grown plants as well as containers. Low, less truckload delivery rates to the east.

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NURSERIES, INC.
CAIRO, GEORGIA • SINCE 1887
"WIGHT GROWN MEANS GROWN RIGHT"



HARDY AZALEAS

Can be planted now.

All azaleas are 2 to 3-yr. transplants and carry a small ball of soil.

AZALEA AMOENA. Very hardy evergreen foliage which turns rich bronze in winter. Semidouble, purple flowers. 4 to 6 ins. \$15.00 per 100

AZALEA HINODEGIRI. Brilliant red. 2-yr., T., 3 to 6 ins., br. \$15.00 per 100

AZALEA KAEMPFER. Seedlings (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fail. Deciduous. 4 to 6 ins., T. \$15.00 per 100

AZALEA KURUME. Very hardy. Will stand 19 degrees below zero. Gives a great variety of colors and types, from choice whites to orchids, deepest pinks and reds. Good evergreen foliage. 2-yr., T., 4 to 8 ins. \$15.00 per 100

AZALEA SCHLIPPENBACHI. Considered by many the best azalea of all. Very large pink flowers; very large leaves which turn pink in fall. Deciduous. 4 to 6 ins., T., heavy \$25.00 per 100

AZALEA WHITE. Evergreen. Large flowers with a pink blush in throat, similar to but much harder than *Azalea indica Alba*. 4 to 6 ins., T. \$15.00 per 100

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather and often last six weeks. Grows well in sun or shade. Makes a nice contrast with azaleas and rhododendrons.

4 to 6 ins., T., br. 15c each

VIBURNUM RHYTIDOPHYLLUM

(Leather-leaved Viburnum)

Large, leatherlike evergreen leaves, red berries. Much used for flower arrangements.

6 to 8 ins. 25c each

CHINESE MAGNOLIAS

Soulangeana nigra, dark purplish-pink.

Rustica rubra, pink.

Pink superba, pink.

Stellata (Star Magnolia), semidouble, pure white.

Alexandrina, large, late pink.

Lennei, pink.

Soulangeana, pink.

Alba superba, white.

All 2-yr., 12 to 18 ins., on own roots. 75c each.

Minimum order, 5 of one kind.

SEND FOR LIST OF UNUSUAL PLANTS.

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

formation and help you to avoid expensive mistakes.

If your state collects a retail sales tax, you must keep a record of your retail sales. A good method is to make out a sales slip for each sale, showing the customer's name and address, items purchased, prices and total amount of sale, plus sales tax collected. These will serve not only as a basis for making sales reports, but can be used for inventory control and to build a mailing list.

Labor Records

For your further protection you should keep a labor record. This should show the name, age and address of the employee, social security number, date employed, rate of pay, hours worked per week or month and nature of work. If the employee is paid on an hourly basis, the records should show days and hours worked in the pay period.

The nursery business is in a peculiar position, because it is not uniformly defined by various government agencies. The Treasury Department has one definition for it, the Department of Labor another. Nurserymen, with good reason, consider themselves agriculturists. Wage-hour laws do not apply to agriculture, but the agencies charged with the administration of these statutes are constantly endeavoring to classify the nursery business as industrial, so that it will come under these laws. There have been numerous court decisions that have helped to clarify the situation, but it is still confused. For instance, the administrators of the wage-hour law have ruled that a worker in a nursery engaged in interstate commerce who picks up a purchased plant on Monday morning and hands it to a customer is engaged in industry and comes under the wage-hour law for the rest of that week. This is true even though he may cultivate corn the rest of the week. That is the way it is. For your own protection you should familiarize yourself with these various rulings. It is suggested that you secure from the United States Department of Labor, Washington, D. C., its interpretative bulletin part 780, subpart A, agriculture entitled "Agriculture, Processing of Agricultural Commodities and Related Subjects."

Licensing

Nearly all states require dealers in nursery stock to purchase a license. If you grow some of your own nursery stock it will have to be inspected by a state department set up especially for this purpose. If it is found free

[Continued on page 51]

SEEDLINGS FOR SPRING

	Per 100	Per 1000
Scotch Pine		
2-yr., S., 2 to 4 ins. . . \$	2.50	\$12.50
2-yr., S., 3 to 6 ins. . .	4.00	20.00
2-yr., S., 4 to 8 ins. . .	5.00	25.00
Riga Scotch Pine		
2-yr., S., 2 to 4 ins. . .	3.00	15.00
2-yr., S., 4 to 8 ins. . .	5.00	25.00
French Scotch Pine		
2-yr., S., 1 to 3 ins. . .	3.00	15.00
Scotch Pine		
(2-1), T., 1 to 3 ins. . .	4.00	20.00
(2-1), T., 3 to 5 ins. . .	7.00	35.00
(2-2), T., 5 to 10 ins. . .	10.00	50.00
(2-2), T., 10 to 15 ins. . .	15.00	75.00
(2-2), T., 15 to 18 ins. . .	25.00	....
Austrian Pine		
2-yr., S., 3 to 6 ins. . .	5.00	25.00
Red Pine		
2-yr., S., 2 to 4 ins. . .	4.00	20.00
Mugho Pine		
3-yr., S., 3 to 7 ins. . .	7.00	35.00
Douglas Fir		
3-yr., S., 2 to 4 ins. . .	4.00	20.00
Blue Spruce		
3-yr., S., 2 to 4 ins. . .	4.00	20.00
3-yr., S., 4 to 8 ins. . .	8.00	40.00
(2-2), T., 3 to 6 ins. . .	10.00	50.00
(2-2), T., 8 to 12 ins. . .	30.00	....
Norway Spruce		
2-yr., S., 2 to 4 ins. . .	3.00	15.00
2-yr., S., 4 to 8 ins. . .	5.00	25.00
(2-2), T., 5 to 8 ins. . .	10.00	50.00
(2-2), T., 8 to 12 ins. . .	15.00	75.00
(2-2), T., 10 to 16 ins. . .	25.00	....
White Spruce		
2-yr., S., 2 to 4 ins. . .	3.00	15.00
2-yr., S., 3 to 6 ins. . .	5.00	25.00
(2-2), T., 4 to 8 ins. . .	10.00	50.00
(2-2), T., 8 to 12 ins. . .	15.00	....
Black Hills White Spruce		
3-yr., S., 2 to 4 ins. . .	4.00	20.00

IMPORTANT—Read carefully. These prices subject to 5% discount on quantities of 25,000 or more.

All orders must be accompanied by cash or a 25% deposit. The balance will be shipped C.O.D.

ROOTSPRED TREE PLANTER: Reforestation, Christmas Tree and Ornamental Planting.

For picture and information, write:

SAM DIBLE NURSERY
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QUALITY STOCK

Hemlock
Pfitzer Juniper — Globe Arborvitae
For inside Japanese Beetle area.

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NEW *Ford Diesel Tractors*



Lowest priced diesels in their class!

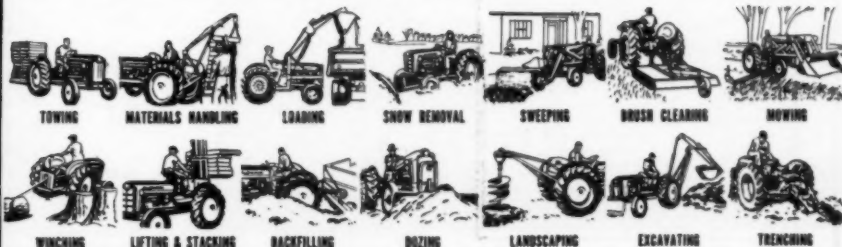
Now from Ford—traditional leader in the industrial field—comes a new line of diesel tractors which will combine greater operating economies through thrifty diesel power with all the time-tested performance features of Ford's gasoline tractors! Four great new models ranging from a Special Utility Model through fully equipped models with choice of four or five speed transmissions, or an aux-

iliary transmission giving 12-speed mobility, and standard or "live" power take-off. All front and rear-mounted loaders, blades and other attachments fit both gasoline and diesel models of the new Ford tractor line for 1958. Get all the facts on these new Ford Diesel Tractors from your nearby dealer, or write to Tractor and Implement Division, Ford Motor Company, Birmingham, Michigan.

Now! Many Ford tractor models with gasoline, LP-gas and diesel engines

HANDLE ALL THESE JOBS AND MANY MORE...AT LESS COST!

**YOU SEE MORE
FORDS
BECAUSE THEY SAVE
MORE MONEY!**



PLUMFIELD NURSERIES, Inc.

P. O. Box 471

FREMONT, NEB.

Write for Spring Wholesale Catalog

TERMS: Cash unless satisfactory credit is established. Packing at cost.

DECIDUOUS SEEDLINGS:	Per 100	Per 1000
<i>Acer ginnala</i> (Ginnala Maple)	\$ 5.00	\$45.00
18 to 24 ins.	4.00	35.00
12 to 18 ins.	3.00	25.00
6 to 12 ins.		

<i>Acer negundo</i> (Box Elder)		
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
6 to 12 ins.	1.40	12.00

<i>Amelanchier alnifolia</i> (Juneberry)		
6 to 9 ins.	4.50	40.00
4 to 6 ins.	3.20	28.00

<i>Ampelopsis velutina</i> (Boston Ivy)		
1/4-in. cal., S.	12.00	100.00
3/16-in. cal., S.	8.00	75.00
Planters, 2/16-in. cal.	5.50	50.00

<i>Caragana arborescens</i>		
6 to 9 ins.	1.70	15.00
4 to 6 ins.	1.25	10.00

<i>Celtis occidentalis</i> (Hackberry)		
2 to 3 ft.	4.50	40.00
6 to 12 ins.	1.90	15.00

<i>Cercis canadensis</i> (Redbud)		
6 to 9 ins.	4.50	40.00
4 to 6 ins.	3.50	30.00

<i>Clematis ligusticifolia</i>		
8 to 15 ins., 1-yr.	4.50	40.00

<i>Colutea arborescens</i> (Bladder Senna)		
2 to 3 ft.	6.00	55.00
18 to 24 ins.	5.00	45.00
12 to 18 ins.	4.00	35.00

<i>Cornus stolonifera</i> (Dogwood)		
18 to 24 ins.	6.00	55.00
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.00	25.00

<i>Cotoneaster acutifolia</i>		
6 to 12 ins.	5.00	45.00
5/32-in. cal., approx.		
12 to 18 ins.	8.00	75.00

<i>Crataegus arnoldiana</i>		
6 to 12 ins.	4.00	35.00

<i>Elaeagnus angustifolia</i> (Russian Olive)		
6 to 12 ins.	2.40	20.00

<i>Elaeagnus commutata</i> (Silverberry)		
2 to 3 ft.	9.00	85.00
18 to 24 ins.	6.50	60.00
12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.00	35.00

<i>Fraxinus lanceolata</i> (Green Ash)		
3 to 4 ft.	5.40	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00

<i>Gleditsia triacanthos inermis</i> (Thornless Honey Locust)		
3 to 4 ft.	8.00	75.00
2 to 3 ft.	5.00	45.00

<i>Wild River Grape</i>		
No. 1	3.50	30.00
No. 2	2.50	20.00

<i>Lonicera tatarica</i> (Honeysuckle)		
6 to 9 ins.	3.20	28.00

HARDY APPLE UNDERSTOCKS FOR THE NORTH

<i>Malus Columbia</i>	Per 100	Per 1000
No. 1	\$5.50	\$50.00
No. 2	4.50	40.00

<i>Malus Hops</i>	Per 100	Per 1000
No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00

<i>Malus Manchurica</i>	Per 100	Per 1000
No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00

<i>Malus Rosybloom</i>	Per 100	Per 1000
No. 1	5.50	50.00
No. 2	4.50	40.00

<i>Morus tatarica</i> (Russian Mulberry)		
18 to 24 ins.	\$ 3.20	\$28.00
2 to 3 ft.	4.00	35.00
6 to 12 ins.	1.40	12.00
<i>Prunus americana</i> (Native Plum)		
1/4-in. cal.	4.50	40.00
No. 1	4.00	35.00
No. 2	2.90	25.00
No. 3	2.10	18.00

<i>Prunus armeniaca</i> (Chinese Apricot)		
2 to 3 ft.	8.00	75.00
18 to 24 ins.	6.50	60.00
6 to 12 ins.	2.50	20.00

<i>Prunus besseyi</i> (Western Sand Cherry)		
2 to 3 ft.	8.00	75.00
18 to 24 ins.	5.50	50.00
12 to 18 ins.	3.50	30.00

<i>Prunus japonica</i>		
18 to 24 ins.	8.00	75.00
6 to 12 ins.	4.50	40.00
2 to 3 ft., br.	27.00	240.00

<i>Prunus melanocarpa</i> (Chokeberry)		
5-in. cal., approx. 12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.50	40.00

<i>Prunus padus</i> (Mayday)		
6 to 12 ins.	4.00	35.00
5-in. cal., approx. 10 to 18 ins.	5.50	50.00

<i>Prunus serotina</i> (Wild Black Cherry)		
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00

<i>Prunus tomentosa</i> —Negative		
From seed gathered from virus-free plants.		
2 to 3 ft.	15.00	130.00
18 to 24 ins.	9.50	90.00

<i>Prunus tomentosa</i> (Nanking Cherry)		
2 to 3 ft.	14.00	120.00
18 to 24 ins.	8.50	80.00
12 to 18 ins.	6.00	55.00

<i>Pyrus ussuriensis</i> (Korean Pear)		
No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.50	30.00

<i>Quercus palustris</i> (Pin Oak)		
3 to 4 ft.	20.00	180.00
2 to 3 ft.	15.00	140.00
18 to 24 ins.	12.00	110.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
6 to 9 ins.	5.50	50.00

<i>Quercus rubra</i> (Red Oak)		
12 to 18 ins.	8.50	80.00
6 to 9 ins.	5.50	50.00

<i>Rosa multiflora</i>		
1/4-in. cal.	5.00	45.00
8 to 15 ins.	2.70	22.00

<i>Rhus canadensis</i> (Sumac), three-leaved		
6 to 12 ins.	3.50	30.00

<i>Robinia pseudoacacia</i> (Black Locust)		
2 to 3 ft.	4.00	35.00
3 to 4 ft.	5.50	50.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00

<i>Syringa villosa</i>		
6 to 12 ins.	5.00	45.00

<i>Syringa vulgaris</i> (Common Lilac)		
6 to 9 ins.	3.50	30.00
4 to 6 ins.	2.50	20.00

<i>Ulmus americana</i> (American Elm)		
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00

<i>Ulmus pumila</i> (Chinese Elm)		
2 to 3 ft.	4.50	40.00
6 to 12 ins.	1.40	12.00

<i>Shepherdia argentea</i> (Buffalo Berry)		
6 to 12 ins.	4.00	35.00

Send us your list for quotations on large quantities.

LINING-OUT EVERGREENS:	Each	Per 10	Per 100	Per 1000
<i>Bare-root</i>				
<i>Admirabilis Creeping Juniper</i>				
12 to 15 ins., TTT	\$0.75	\$0.70	\$0.65	
<i>Andorra Juniper</i>				
15 to 18 ins., TTT	.95	.90	.85	
9 to 12 ins., TTT	.60	.55	.50	
<i>Pfitzer Juniper</i>				
15 to 18 ins., TTT	1.10	1.00	.90	
12 to 15 ins., TTT	.85	.80	.75	
9 to 12 ins., TTT	.70	.65	.60	
6 to 9 ins., TTT	.45	.40	.35	
<i>Gold Tip Pfitzer Juniper</i>				
9 to 12 ins., TTT	.70	.65	.60	
<i>Hetz Juniper</i>				
12 to 15 ins., TTT	.85	.80	.75	
9 to 12 ins., TTT	.70	.65	.60	
6 to 9 ins., TTT	.45	.40	.35	
<i>Savin Juniper</i>				
18 to 24 ins., TTT	1.45	1.35	1.25	
15 to 18 ins., TTT	1.10	1.00	.90	
12 to 15 ins., TTT	.85	.80	.75	
9 to 12 ins., TTT	.70	.65	.60	
<i>Thuja americana pyramidata</i>				
18 to 24 ins., TTT	1.45	1.35	1.25	
12 to 15 ins., TTT	.85	.80	.75	
9 to 12 ins., TTT	.70	.65	.60	
<i>Woodward Globe Arborvitae</i>				
9 to 12 ins., TTT	.70	.65	.60	
6 to 9 ins., TTT	.45	.40	.35	

CANNED EVERGREENS:	Each	Per 5	Per 100
<i>Andorra Juniper</i>			
1-gal. can	\$1.25	\$1.10	
<i>Irish Juniper</i>			
1-gal. can	1.25	1.10	
<i>Juniperus virginiana</i>			
18 to 24 ins.	1.40	1.30	
2 to 3 ft.	1.50	1.40	
<i>Koster Juniper</i>			
1-gal. can	1.45	1.35	
<i>Taxus cuspidata</i>			
1-gal. can	1.50	1.40	
<i>Woodward Globe Arborvitae</i>			
1-gal. can	1.25	1.10	
<i>Euonymus alatus compactus</i>			
1-gal. can	1.00	.90	
Canned evergreens packed 5 to a basket.			

SHADE TREES:	Per 10	Per 100
<i>Ash, Green</i>		
1 1/2-in. cal.	\$45.00	\$425.00
1 1/4-in. cal.	35.00	325.00
8 to 10 ft.	25.00	225.00
<i>Crab Apple, Hops</i>		
6 to 8 ft.	16.50	150.00
5 to 6 ft.	13.00	120.00
<i>Locust, Honey Thornless</i>		
1/4-in. cal.	43.00	400.00
8 to 10 ft.	33.00	300.00
6 to 8 ft.	25.00	225.00
<i>Maple, Soft</i>		
2-in. cal.	55.00	500.00
1 1/2-in. cal.	35.00	325.00
1 1/4-in. cal.	28.00	250.00
8 to 10 ft.	22.00	200.00

SHRUBS:	Per 10	Per 100
<i>Cydonia japonica</i>		
2 to 3 ft.	\$5.50	\$50.00
18 to 24 ins.	4.40	38.50
<i>Honeysuckle, Carlton, red</i>		
3 to 4 ft.	6.50	60.00
2 to 3 ft.	5.50	50.00
<i>Hydrangea P. G.</i>		
18 to 24 ins.	5.50	50.00
<i>Lilac, rothomagensis</i>		
18 to 24 ins.	5.00	45.00
<i>Lilac, villosa</i>		
18 to 24 ins.	4.50	40.00
12 to 18 ins.	2.90	25.00
<i>Spiraea froebelii</i>		
2 to 2 1/2 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
15 to 18 ins.	4.00	35.00
<i>Spiraea multiflora</i>		
3 to 4 ft.	6.50	60.00
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
<i>Spiraea vanhouttei</i>		
2 to 3 ft.	4.50	40.00
18 to 24 ins.	3.50	30.00
12 to 18 ins.	2.60	22.00

PROMPTLY AVAILABLE.

Growers prove Du Pont Uramite® grows better flowers and ornamentals

FERTILIZER COMPOUND

BETTER ROSES AND CHRYSANTHEMUMS

Hadley, Massachusetts—"We have used 'Uramite' on roses (var. goldilocks) and several varieties of chrysanthemums with excellent results," says Clarence Mitchell, foreman of operations at Butler and Ullman. "The goldilock roses were the best grown in over ten years' experience. The mums compared with mums grown other years and required a far less extensive fertilization program. 'Uramite' enables us to establish a known nitrogen level in the soil—one on which plants can depend. In the future, 'Uramite' will be the basis of our nitrogen fertility program." "Uramite" is concentrated—38% nitrogen from methylene ureas. It gives long response, releasing nitrogen steadily, in the right amounts for best growth.



Less Extensive Care required in fertilization reports Butler and Ullman florists about these chrysanthemums. "Uramite" provides a level of nitrogen plants can depend on.



Full Rich Color for roses resulted from using "Uramite" at Andre Greenhouses. Tom Andre, owner, says: "Uramite" is easy to use... assures constant level of adequate nitrogen."

BETTER ROSES

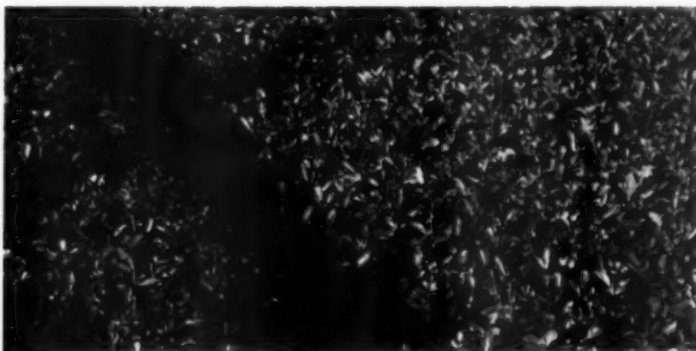
Doylestown, Pa.—"Two applications per year of Du Pont 'Uramite' at the rate of 2 pounds per 100 square feet assure our roses a constant level of adequate nitrogen," reports Tom Andre, owner of Andre Greenhouses, after examining the results of soil tests taken at regular intervals.

At Andre Greenhouses "Uramite" helps grow roses that are beautiful, healthy and rich in color. Many other professional growers the country over report the same experience. "Uramite" meets nitrogen requirements in an economical, efficient, and convenient way. It's easy to handle, because the uniform granules are free-flowing, clean and completely odorless.

BETTER AZALEAS

Semmes, Alabama—"Uramite" is the source of nitrogen for azaleas at Semmes Nurseries Inc. Mr. C. Elwood Stephens says, "Du Pont 'Uramite' has furnished a steady supply of nitrogen over a five month period and has produced plants with good color, good root systems, and fine top growth. Because of the long response from 'Uramite', I save labor and also I'm offered safety in application."

Experience shows that maintenance of an adequate level of available nitrogen in the soil is the most important contribution any fertilization program can make to the growing of hardy, compact ornamentals.



Fine Top Growth, good color and good root systems are common to all these azaleas from Semmes Nurseries, Inc. "Uramite" is easy to apply and because it also gives longer response, it saves labor.

Du Pont "Uramite" promotes healthy, vigorous turf on areas used for work . . . or play



Modern and Well Groomed, the Indianapolis plant of Western Electric adds distinction to the entire community. "Uramite" helps build 20 acres of rich, firm, uniform-growing turf around the plant.

Good turf—and good community relations at Indianapolis plant Western Electric Company

Large lawns around plant sites have two important advantages. They provide pleasant surroundings for employees and they help to make industrial areas attractive additions to the community.

To achieve these goals, Western Electric Company uses "Uramite" as the nitrogen base for their fertilization program on the spacious grounds at their plant in Indianapolis. Results have been excellent. The overall appearance of the grass has been superior, and "Uramite" has promoted such even growth that the mowing load has been more uniform. "Uramite" is keeping about 20 acres of grass in top condition . . . helping this plant to maintain an appearance that's a credit to the entire community.

E. I. DU PONT DE NEMOURS & CO. (Inc.)

Polychemicals Department

WILMINGTON 98, DELAWARE

District Offices

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Philadelphia 3, Pa., 1616 Walnut St.
San Francisco 4, Calif., 111 Sutter Street



Even Growth is maintained on greens at Carmargo Country Club with "Uramite". Feeding problem is simplified because "Uramite" supplies nitrogen for a long period at the rate needed for healthy turf.

Turf that members like to play on . . . and everybody likes to look at . . . Carmargo Country Club, Cincinnati

The grounds of the Carmargo Country Club are among the most beautiful in the country. Golf greens, tees and tennis courts are all of tournament quality—pleasing to the eye, and in excellent playing condition throughout the season.

"'Uramite' is the basis for our feeding program", reports Mr. Taylor Boyd, Superintendent. "We have found it to work well on warm season grasses for lawns or specialized areas such as our tennis courts. 'Uramite' also does a good job on golf greens and tees. The feeding problem is more simplified with a nitrogen fertilizer such as 'Uramite'. For example, used on bent putting greens, it maintains an even growth over a five month period in the Cincinnati area. Applied on Z-52 and U-3 Bermuda in the Fall, it speeds the coloring of both grasses in the Spring by 10 to 21 days."

DU PONT Uramite
FERTILIZER COMPOUND

BETTER THINGS FOR BETTER LIVING . . . through Chemistry

from injurious diseases and insects, it will be certified, and you are free to sell it. With the exception of only two or three states, all you need to do to gain the right to ship nursery stock from your state into another is to file a copy of your dealer's license or inspection certificate with the other state and attach a copy to each shipment. For selling in some of the larger cities it may be necessary to obtain a vendor's license.

Trade Associations

Join the trade associations, state, sectional and national. They render valuable service and are working for your benefit all the time. There are no other organizations espousing your special interests, on the alert against adverse legislation and looking for opportunities to uplift the industry. It is selfish to enjoy these benefits without doing your share. On the other hand, your contributions will make the gains greater for all.

If your town has a chamber of commerce, join it. Enter into civic activities wholeheartedly. Not only is this your duty as a citizen, but it will be good for your business.

Do not overlook the trade papers. Subscribe to them and read them religiously. They afford you the best means of keeping yourself informed on the doings of your fellow nurserymen, and it is usually through them that the latest developments in the industry are first brought to your attention.

Trade Practice Rules

The federal trade commission, in cooperation with the nursery industry, has set up a set of trade practice rules for the nursery industry. A copy of these may be obtained by writing to the federal trade commission at Washington.

For further suggestions and helps in getting the right start in business, you are referred to two publications. One is "Establishing and Operating Your Own Business," industrial series No. 19, United States Department of Commerce, for sale at 10 cents by the superintendent of documents, United States government printing office, Washington 25, D. C. The other is "Should I Start My Own Business?", special bulletin No. 5 of the bureau of economic and business research, University of Illinois, 205 Commerce building, Urbana, Ill., available at 50 cents per copy.

The small business administration, with offices in principal cities, issues many publications helpful to one just starting in business. Most of them are available without charge.

GET YOUR COMPLETE LINE FROM ONE RELIABLE GROWER



**POTTED ROSE
BUSHES**
**POTTED GARDEN
ANNUALS ... 3" POTS**
**POTTED
GERANIUMS ... 4" POTS**
**POTTED
PELAGONIUMS
... 4" POTS**
**KUBE-PAK ANNUALS
... 1 DOZEN PER TRAY**

garden and nursery
material for ...

THE GARDEN MART
THE RETAIL NURSERYMAN
THE ROADSIDE MARKET

FROM NEW YORK TO WASHINGTON, D.C.

POTTED NURSERY STOCK

Shade Trees
Flowering Trees
Fruit Trees
Flowering Shrubs
Hardy Vines
Hybrid Rhododendrons
Mollis Azaleas
Ghent Azaleas

B & B NURSERY STOCK

Kurume Azaleas
Glendale Azaleas
Taxus
Hemlocks

price lists sent on request—free delivery on quantity lots

Fred W. Muller, Inc.

Established 1915

P.O. BOX 481, MEDIA, PA.

Phone: LOwell 6-2755

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
Clethra alnifolia		
18 to 24 ins., clumps	\$ 4.00	\$ 35.00
2 to 3 ft., clumps	6.00	50.00
Ilex verticillata		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	7.00	60.00
4 to 6 ft., clumps	10.00	90.00
Viburnum cassinoides		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
Viburnum dentatum		
2 to 3 ft., clumps	5.00	40.00
3 to 4 ft., clumps	7.00	60.00
4 to 5 ft., clumps	9.00	70.00

CLUMP BIRCH

Paper Birch		
4 to 6 ft., 3 stems and up	40.00	
6 to 8 ft., 3 stems and up	60.00	
Gray Birch		
4 to 6 ft., 3 stems and up	30.00	250.00
6 to 8 ft., 3 stems and up	45.00	350.00

PAPER BIRCH

Betula papyrifera		
6 to 8 ft., shows color	12.00	100.00

All stock is first-quality collected material

LINING-OUT STOCK

	Per 100	Per 1000
Acer saccharum		
2 to 3 ft.	\$ 15.00	
3 to 4 ft.	30.00	
4 to 6 ft.	70.00	
6 to 8 ft.	125.00	
Betula papyrifera		
1 to 2 ft.	12.00	\$100.00
2 to 3 ft.	15.00	120.00
4 to 6 ft.	40.00	
Clethra alnifolia		
6 to 18 ins.	8.00	70.00
Ilex verticillata		
1 to 2 ft.	12.00	100.00
Syringa vulgaris		
1 to 2 ft.	8.00	70.00
Viburnum acerifolium		
6 to 18 ins.	15.00	120.00
Viburnum cassinoides		
1 to 2 ft.	9.00	80.00
Viburnum dentatum		
1 to 2 ft.	9.00	80.00

HEMLOCK SEEDLINGS

Tsuga canadensis		
6 to 9 ins.	5.00	30.00
9 to 12 ins.	8.00	70.00
12 to 18 ins.	15.00	120.00

ISAAC LANGLEY WILLIAMS

P. O. Box 352

Exeter, N. H.

PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

	Per 100	Per 1000	5000 or more
Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade.	Prepaid F.O.B. here		
	\$5.00	\$45.00	\$42.50

Available for prompt shipment throughout the year. Shipments anywhere including Canada. Good packing free. A good source of supply.

PEEKSKILL NURSERY

Phone: Lakeland 8-5595
SHRUB OAK, N. Y.



MALLOW or HARDY HIBISCUS ANNIE J. HEMMING

Plant Patent 835

A beautiful, luminous red Mallow, selected for its rich color, overlapping petals, dark green foliage, medium size and lack of coarseness. Flowers in July, August and September—even until frost. A single two-year plant bore 250 six to seven-inch flowers in one season. Quite hardy.

Easy to grow and transplant.

An ideal plant for mail-order and garden store business.

2-yr., No. 1 Plants

\$125.00 per 100.

Color plate available.

Attractive metal plant patent tag attached to each plant.

Orders received before April 1 will be potted in 6-in. plastic pots, without additional charge, if desired for summer garden store sales.

Write for trade list.

EASTERN SHORE NURSERIES, INC.

P. O. Box 743 EASTON, MD.

DYBVIG HONORED

Henry N. Dybvig, Dell Rapids, S. D., was recently honored for his many years of activity in the nursery trade and the horticultural field in general by being named an eminent farmer of 1957 by South Dakota State College, College Station. Mr. Dybvig was one of four conferees who received certificates of distinguished service November 7 at a banquet marking the college's annual "eminent farmers and homemakers recognition day."

Mr. Dybvig was born near Dell Rapids in 1890, was educated in country schools and took a business course at Sioux Falls. He joined his father, Nels Dybvig, in the operation of the Dybvig Nursery, Colton, S. D., in 1909, residing there until 1950. His sons, Melvin and Clarence, now operate the Colton nursery and a branch at Baltic, S. D. A member of the American Association of Nurserymen and the South Dakota State Horticultural Society, he has served as president and state treasurer of the latter association. He is president of the South Dakota state weed board and holds membership in the "Keep South Dakota Green" Association, the South Dakota tree farm committee and the South Dakota Parks Association.

ELECTIONS IN UTAH

Members of the Utah Association of Nurserymen at their annual convention January 23 elected Wayne B. Freckleton, Salt Lake City, president

of the association for 1958. Other officers chosen at the meeting held at Temple Square hotel, Salt Lake City, were McEwan Voorhees, vice-president, and Jerry Watts, secretary-treasurer of the association.

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

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10 ins. 1.00
12 ins. 1.25
15 ins. 2.00

CORAL BELLS
6 ins.50
8 ins.75
10 ins. 1.00

HINODEGIRI
Our Hinos are very dark red.
6 ins.50
8 ins.75
10 ins. 1.00
12 ins. 1.25
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18 ins. 2.50
20 ins. 3.50
24 ins. 5.00
30 ins. 6.00
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12 ins. 1.00
15 ins. 1.25

KAEMPFERI
Hardest of all azaleas; well-budded, heavy.

OTHELLO, SALMON BEAUTY, FEDORA and CARMEN are all the same price.
8 ins.75
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36 ins. 7.50

LEDIFOLIA ALBA
6 ins. \$0.50
8 ins.75
10 ins. 1.00
12 ins. 1.25
15 ins. 2.00
18 ins. 2.50
20 ins. 3.50
24 ins. 5.00

MAXWELL
8 ins.75
10 ins. 1.00

HINO-CRIMSON
6 ins.50
8 ins.75
10 ins. 1.00
12 ins. 1.25
15 ins. 2.00

SNOW
6 ins.50
8 ins.75
10 ins. 1.00
12 ins. 1.25

We also have limited quantities of the following varieties: Louise Gable, Favorita, Beethoven, Johann Strauss, Rose Bud, Rose Greeley, Addy Wery and Polaris. Rooted cuttings of all varieties, \$50.00 per 100 except—Rose Bud, Rose Greeley, Addy Wery, Louise Gable, \$75.00 per 1000.

Buy northern-grown hardy azaleas. Our cuttings are made from plants that have been outdoors, unprotected for the past 15 years. Try them once and see the difference.

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FOR FAST TURNOVER AND REPEAT SALES

America's only Complete Line of Soluble Plant Foods and Applicators

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Your customers will appreciate how this life-time tool thoroughly mixes plant food, hydrated lime, and other materials—they will marvel at its sheer functional beauty—they will be amazed at the results they get—but most of all they will appreciate how it takes the work out of fertilizing and puts the fun in gardening.

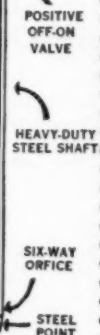
Operates on any water pressure—any distance—no moving parts—and is unconditionally guaranteed. Don't miss the boat—stock the Flow Mixer.

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Get to the Roots—

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Feeds as
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More than just the basic plant food—also contains 14 other elements in a balanced formula that leading soil research chemists say is necessary for proper plant growth and health.

Your customer doesn't wait, worry, or guess when you recommend Fertilizer—It's quick acting, immediately soluble, immediately available to the plant. You can see the difference often within 48 hours—your customers get top results—they buy—and buy again.

Fertilizer can be applied in many ways—by dipping, spraying, sprinkling, or with one of the Fertilizer precision-engineered applicators shown at the left. Small sizes are packaged in multi-colored self-selling packages—bulk sizes in economy drums.

Fertilizer is not a promotional growth stimulant—not a wonder drug—it is a pure, concentrated balanced plant food with all the essential elements—just what Mother Nature intended to make plants grow—fast!

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Get them started on the "Try-It" Kit now—step them up to the Super Gardener Kit later. "Try-It" contains six 12-oz. "Poly" bags of Fertilizer, one "Jet-Action" Hand Sprayer and the instructive Plant Feeding Guide. Packaged in multi-colored self-displaying carton.

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Division of Tennessee Fabricating Company

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THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

TUBBED PLANTS

Tubbed plants used to be quite popular, and then, for a while, they lost their vogue. Now, they are regaining some of their favor. Perhaps some of the popularity arises from a much wider use of container-grown plants, for the information obtained thereby can be used for growing plants in tubs. The two methods are not quite the same, because the tubbed plant is grown in its container permanently.

Tubbed plants have a formal association, which accounted for their popularity 30 or more years ago, while the present informal attitude of people and of gardening design accounts for the diminished interest in them today. In addition, tubbed plants, both in the hands of the nurseryman and in the hands of the gardener, call for extra labor, which is scarce now.

Several types of plants are grown in tubs, for several reasons. Tropical or subtropical plants are tubbed for cultural reasons and used indoors or outdoors as the need requires. These plants are often used as party or special occasion ornaments and then returned to the greenhouse. They are usually different variations of palms. Other plants may be used outdoors or on terraces during the summer and kept in a cool greenhouse during the winter. Plants such as oleanders, hibiscus, gardenias and camellias are often treated in this way.

In their previous period of popularity, tubbed plants were often used as accent points in formal gardens or as other features in formal arrangements. Plants so used could be either semihardy plants like those previously mentioned plus the common bay, or they could be hardy plants that could withstand outdoor temperatures through the winter.

In the Maryland section, some form of boxwood is most often used. The preferred types are *Buxus sempervirens* pruned into pyramid or standard shapes. Farther north it is more desirable to use the capitata yew and the hemlock. However, many other types of plants can also be used. In the colder parts of the country, it would probably be best to use the arborvitae. Although a

plant in a tub is more susceptible to cold than a plant in the ground, it can be protected or moved to a sheltered spot in winter.

Informal-Formal Design

The increased popularity of tubbed plants is not so much indicative of a return to formality but of a greater interest in courts, terraces, patios and other architectural features in the modern landscape. This informal-formal type of design calls less for formal tubbed plants in pairs or multiples of two than it does for individual informal plants. It also allows a greater range for the selection of a wide variety of plants and

points to an interest in plants having a picturesque shape or an interesting character. Instead of the pyramidal, standard or global shape of the clipped evergreen, there would be a greater call for flowering crab apple trees, lilacs and crape myrtles, and among the evergreens, such plants as berried hollies and fire thorns. A great number of plants offer themselves as possibilities.

Maintaining a healthy-looking plant is not exactly simple; too often after a year or two it becomes stunted and unattractive. In such a situation, some of the new methods used in growing plants in containers may be of assistance. Tubbed plants need good drainage, a steadily available food supply and just the right amount of water each day.

When planting a plant in a 24-inch tub, one should place two or three inches of washed gravel, cinders or slag at the bottom, covered with a small quantity of sand. The plant should be firmly planted in a

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4-yr., well-br., T., 10 to 12 ins.	1.00	.95
4-yr., well-br., T., 12 to 15 ins.	1.25	1.18
4-yr., well-br., T., 15 to 18 ins.	1.60	1.50
4-yr., well-br., T., 18 to 21 ins.	2.00	1.90

All 3 and 4-yr., well-branched, could pot in 6 and 8-in. pots, for plant mart sales, heavy-grade.

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50 5 to 6 ft., No. 2 heads	\$5.00	100 3 to 4 ft.	\$2.25
50 5 to 6 ft., No. 1 heads	6.00		
KWANZAN FLOWERING CHERRY		WHITE DOGWOOD	
100 4 to 5 ft., br.	2.75	1000 4 to 5 ft., br.	1.00
		1000 5 to 6 ft., br.	1.50
PAUL'S SCARLET THORN		1000 6 to 8 ft., br.	2.00
100 4 to 5 ft.	2.50	500 8 to 10 ft., br.	3.00
NORWAY MAPLE		TULIP POPLAR TREE	
250 6 to 8 ft., br.	2.00	500 6 to 8 ft., T., br.	.85
250 8 to 10 ft., br.	2.50	500 8 to 10 ft., T., br.	1.25
		500 10 to 12 ft., T., br.	1.75
CRIMSON KING MAPLE (Pat. No. 735)		REDLEAF PEACH	
1000 4 to 5 ft., whips	2.00	250 3 to 4 ft., br.	.35
1000 5 to 6 ft., whips	2.50	250 4 to 5 ft., br.	.45
500 6 to 8 ft., whips	3.00		
200 8 to 10 ft., whips	4.50	DOUBLE RED-FLOWERING PEACH	
CLUMPS (3-N-1) WHITE BIRCH		1500 3 to 4 ft., br.	.30
100 3 to 4 ft.	2.50	1500 4 to 5 ft., br.	.40
APPLES 5-N-1		PEPPERMINT FLOWERING PEACH	
(Five varieties budded on one tree)		500 3 to 4 ft., br.	.30
300 4 to 5 ft., 9/16-in. cal.	1.00	500 4 to 5 ft., br.	.40
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MORaine LOCUST (Pat. No. 836)		250 3 to 4 ft., br.	.30
100 5 to 6 ft.	2.75	250 4 to 5 ft., br.	.40
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250 2 to 3 ft.	.35	300 3 to 4 ft., br.	.30
250 3 to 4 ft.	.60	300 4 to 5 ft., br.	.40
250 4 to 5 ft.	1.00		
250 5 to 6 ft.	1.25	PRUNUS THUNDERCLOUD	
200 6 to 8 ft.	1.50	500 3 to 4 ft., br.	.30
100 8 to 10 ft.	2.00	500 4 to 5 ft., br.	.40
BLACK WALNUT		PRUNUS NEWPORT	
1250 3 to 4 ft.	.25	500 3 to 4 ft., br.	.30
500 4 to 5 ft.	.40	500 4 to 5 ft., br.	.40
500 5 to 6 ft.	.50		
200 6 to 8 ft.	.75	AMERICAN SYCAMORE	
		1000 5 to 6 ft., br.	.60
		1000 6 to 8 ft., br.	.75
		500 8 to 10 ft., br.	1.00

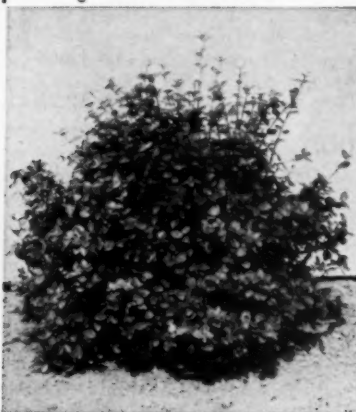
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4 New Sturdy Euonymus Shrubs The IDEAL BROAD-LEAVED EVERGREEN for Modern Landscape Design

Available from LICENSED GROWERS.
See February 1 issue of
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EMERALD PRIDE
(Pat. No. 1079) Compact-bush type.



EMERALD CHARM
(Pat. No. 1079) Narrow, columnar.



EMERALD CUSHION
(Pat. No. 1112) Low, dwarf shrub.

Created and Patented by
CORLISS BROS., Inc.
Gloucester and Ipswich, Mass.

mixture of 50-50 topsoil and compost. The surface looks well if it is covered with about one-half inch of sand or one inch of peat moss.

For feeding, dissolve a balanced, soluble fertilizer, one tablespoon to a bucket of water, and feed about once a month during the growing season. Incidentally, one can grow attractive plants in pure quartz sand if he feeds them a well-balanced, soluble fertilizer. Plants in tubs cannot stand the drying a plant in the ground can, and they must have enough sun to force them to make adequate root growth.

Plants growing in tubs should be retubbed about every three years. Take the plants out of the tubs, wash all the soil off the roots and prune the roots. Then, prune the top of the plant to balance the roots and repot as before.

Just as in the past when tubbed plants often were sheared and trained into formal shapes, so today they can be pruned and trained into picturesque, informal or special shapes to suit a special need.

MINNESOTA ARBORETUM

An arboretum to be devoted to research in testing and developing hardy ornamentals for landscaping home grounds in Minnesota is about to be developed by the University of Minnesota, St. Paul. A deed to 160 acres of woodland and meadow was given to the university last month, along with a check for \$25,000, for initiating the program, by the Minnesota State Horticultural Society. Contributions for the gift were made by garden clubs and individuals.

The site of the new arboretum is on Highway 5, a mile from the university's fruit-breeding farm near Excelsior. A tract of nearly 100 acres of timberland in the acquisition has nearly every type of tree and shrub native to the area. Fifty acres of open, rolling land will make available immediately a section for experimental plantings.

While the existing trees, native shrubs and wild flowers will provide a beginning for the landscape arboretum program, eventually approximately 3,000 species and varieties of shrubs and trees will be planted, according to Leon C. Snyder, head of the university's department of horticulture, who will be in charge. The high land, as well as the low and marsh land, will furnish the types of soil and natural habitat for a large variety of plants.

Planted in a natural setting, the arboretum will give homeowners and garden lovers an opportunity to see

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largest available supplies
of big specimen
material, including:

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Refer to our list in the
March 1 issue

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	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.50
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.50	100.00
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Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

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	Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000
SCOTCH PINE			DOUGLAS FIR			WHITE SPRUCE		
2-yr., 2 to 4 ins.	\$ 2.50	\$12.50	3-yr., 2 to 4 ins.	\$ 4.00	\$20.00	2-yr., 2 to 4 ins.	\$ 3.00	\$15.00
2-yr., 3 to 6 ins.	4.00	20.00	BLACK HILLS WHITE SPRUCE			2-yr., 3 to 6 ins.	5.00	25.00
2-yr., 4 to 8 ins.	5.00	25.00	3-yr., 2 to 4 ins.	4.00	20.00	(2-2), 4 to 8 ins.	10.00	50.00
(2-1), 1 to 3 ins.	4.00	20.00	NORWAY SPRUCE			(2-2), 8 to 12 ins.	15.00	75.00
(2-1), 3 to 5 ins.	7.00	35.00	2-yr., 2 to 4 ins.	3.00	15.00			
(2-2), 5 to 10 ins.	10.00	50.00	2-yr., 4 to 8 ins.	5.00	25.00			
(2-2), 10 to 15 ins.	15.00	75.00	(2-2), 5 to 8 ins.	10.00	50.00			
(2-2), 15 to 18 ins.	25.00	....	(2-2), 8 to 12 ins.	15.00	75.00			
RIGA SCOTCH PINE			(2-2), 10 to 16 ins.	25.00	....		
2-yr., 2 to 4 ins.	3.00	15.00	BLUE SPRUCE					
2-yr., 4 to 8 ins.	5.00	25.00	3-yr., 2 to 4 ins.	4.00	20.00			
AUSTRIAN PINE			3-yr., 4 to 8 ins.	8.00	40.00			
2-yr., 3 to 6 ins.	5.00	25.00	(2-2), 3 to 6 ins.	10.00	50.00			
AMERICAN RED PINE			(2-2), 8 to 12 ins.	30.00	....		
2-yr., 2 to 4 ins.	4.00	20.00	(2-2-3), 10 to 12 ins., each	75c	....		
			(2-2-3), 12 to 18 ins., each	\$1.00	....		

Write now or phone Elderton, Pa., Fleetwood 4-2461 (Night Phone, Elderton, Pa., Fleetwood 4-3505). 50 at 100 rate, 500 at 1000 rate. 5% discount on orders of 25,000 or more. Orders must be accompanied by a down payment of 25% and balance before shipment or order will be sent C.O.D. Some items are in limited supply. ORDER EARLY and avoid disappointment.

plant material in natural landscape groupings, as well as the variety of plants available for landscaping.

WILT IN OAK FLOWERS

In a test conducted at the Missouri agricultural experiment station in cooperation with the central states forest experiment station of the United States Department of Agriculture, both at Columbia, Mo., it was determined that oak wilt infections can occur through injured flowers. This suggested the possibility that certain flower-feeding insects, if contaminated with the oak wilt fungus, could serve as vectors.

T. W. Bretz and T. W. Jones, respectively professor of forestry, University of Missouri, and pathologist, central states forest experiment station, conducted the experiment in the spring of 1956, and the method and results are published in Volume 41, No. 6, of the Plant Disease Reporter of the U.S.D.A.

Test Described

A group of 8-year-old *Quercus acutissima* Carruthers (saw-toothed oak) trees growing in an experimental nursery in central Missouri flowered in the spring of 1956. May 8, 1956, 11 of these trees were inoculated with a white mutant strain of the oak wilt fungus by placing a drop of spore suspension on the stigmas of pistillate flowers and then pricking the stigmas through the drop with a sharp dissecting needle. One tree was similarly inoculated, except that the inoculations were made at the base of the rachises of staminate flower clusters. Fifteen to 20 flowers were inoculated on each

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4 to 12 ins., transplants.....	\$25.00
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6 to 10 ins., transplants.....	27.50
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4 to 8 ins., grafts.....	27.50
8 to 15 ins., grafts.....	37.50
Pink-flowering Dogwood	
10 to 15 ins., grafts.....	75.00

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SPECIAL OFFERING

200 *Acer platanoides*, 2 to 2 1/2-in. cal.
\$8.00 per 10; \$7.75 per 100.

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DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.
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LITTLE SILVER, N. J.

TAXUS

Upright, 6 to 14 ft.
Also Other Varieties of Taxus.

BULK'S NURSERIES

BABYLON, L. I., N. Y.

tree. To check the virulence of the spore suspension, three trees were inoculated through knife wounds made on the stem. Uninoculated trees of the same species were interspersed in the row with the inoculated trees.

Two of the stem-inoculated trees showed early wilt symptoms on May 21, and the third on May 26, 1956.

NURSERY STOCK

	Per 100	Per 1000
Red-leaved Barberry		
2-yr., S., 9 to 12 ins.	\$ 6.50	\$50.00
2-yr., S., 12 to 18 ins.	10.00	75.00
Row run, 9 to 18 ins.	7.50	60.00
Cornus florida (White Dogwood)		
1-yr., S., budding size.	6.00	50.00
1-yr., S., below budding size	4.50	35.00

Ask for list.

BROUWER'S NURSERIES

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HOLLIES

One of the most complete collections of the better named varieties of American and English holly, 3 to 6-inch pots. Field plants, 2 to 6 ft. Send for list.

ANGELICA NURSERIES

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QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).
Seedlings and transplants.

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BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

Four of the pistillate-flower-inoculated trees developed typical oak wilt symptoms during the season, the first by June 27, a second in mid-July, and the other two in September. The tree inoculated through the rachises of staminate flowers developed typical wilt symptoms by September. In addition, a few other trees in the same row and close to the inoculated

KELLY BROS. NURSERIES, INC. HAVE AVAILABLE FOR IMMEDIATE SHIPMENT

All prices F.O.B. Danville. Boxing or baling at cost. Immediate shipment or later, whichever you prefer. Regular terms and conditions.

APPLES	Per 10	Per 100
2-yr., $\frac{1}{2}$ -in. cal. and up.....	\$9.50	\$90.00
2-yr., $\frac{1}{2}$ to $\frac{3}{4}$ -in. cal.....	9.00	85.00
2-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	8.00	75.00
2-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	6.50	60.00

	$\frac{1}{2}$ -in. cal.	$\frac{3}{4}$ -in. cal.	$\frac{1}{2}$ -in. cal.	$\frac{1}{4}$ -in. cal.
Baldwin	250	300	200	200
Cortland	1000	800	500	300
Delcon	20	170	290	...
Doigo Crab Apple.....	...	150	250	100
Double Red Delicious	300	300	200	...
Early McIntosh	500	200	...	100
Galla Beauty	200	300	100	100
Haralson	250	50	30	...
Hyslop Crab Apple.....	...	100	300	...
Idared	300	300	200	...
Lodi	350	150	75	25
Macoun	200	200	...	100
McIntosh	200	200	300	...
Melba	100	400	200	50
Milton	50	370	100	...
Monroe	300	400	200	100
Northern Spy	340	250	...	...
Red Duchess	100	300	150	50
Red Jonathan	100	100	...	...
Red Rome	100	300	400	100
Red Stayman	50	180	150	...
Rome Beauty	200	300	200	125
Ruby .....	...	50	10	...
Spartan	125	340	25	25
Wealthy	300	200	150	50
Webster	100	150	40	20
Yellow Delicious	200	300	...	...
Yellow Transparent	245	300	100	...

PEARS	Per 10	Per 100
2-yr., $\frac{1}{2}$ to $\frac{3}{4}$ -in. cal.....	\$11.00	\$100.00
2-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	9.50	85.00
2-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	7.50	70.00

	$\frac{1}{2}$ -in. cal.	$\frac{3}{4}$ -in. cal.	$\frac{1}{2}$ -in. cal.	$\frac{1}{4}$ -in. cal.
Bartlett	100	300	400	...
B. Bosc	100	300	400	...
Clapp's Favorite	400	200	300	...
Duchess	200	100	50	...
Flemish Beauty	100	...	...	...
Gorham	200	300	75	...
Kieffer	200	...	...	...
Seckel	300	100	...	...
Sheldon	100	100	...	...

QUINCE	Per 10	Per 100
2-yr., $\frac{1}{2}$ -in. cal. and up.....	\$16.00	\$150.00
2-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	16.00	150.00
2-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	13.50	125.00

Orange	$\frac{1}{2}$ -in. cal.	$\frac{3}{4}$ -in. cal.	$\frac{1}{2}$ -in. cal.	$\frac{1}{4}$ -in. cal.
2-yr., $\frac{1}{2}$ -in. cal. and up.....	250	200	...	...
2-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	...	...	...	...
2-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	...	...	...	...

PLUM—On Myrobalan	Per 10	Per 100
2-yr., $\frac{1}{2}$ -in. cal. and up.....	\$12.00	\$110.00
2-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	11.00	100.00
2-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	...	...
Bradshaw	100	200
Burbank	200	300
Fellenberg	200	...
Formosa	50	70
Gold	250	300
Lombard	70	90
Reine Claude .....	...	200
Santa Rosa	100	200
Shiro	200	100
Shropshire Damson	100	200
Stanley	100	100
Yellow Egg	50	100

PEACHES	Per 10	Per 100
1-yr., $\frac{1}{2}$ -in. cal. and up.....	\$8.00	\$75.00
1-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	7.00	65.00
1-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	5.50	50.00
1-yr., $\frac{1}{4}$ to $\frac{1}{8}$ -in. cal.....	4.00	35.00

	$\frac{1}{2}$ -in. cal.	$\frac{3}{4}$ -in. cal.	$\frac{1}{2}$ -in. cal.	$\frac{1}{4}$ -in. cal.
Amber Gem	200	200	100	...
Belle of Georgia	100	300	300	...
Elberta	200	100	300	300
Fairhaven	400	200	300	200
Golden Jubilee	300	100	...	600
Halshaven	100	200	100	50
Redhaven	400	300	...	...
Rich Haven	100	200	300	...
Rio Oso Gem	300	...	200	...
Sunhaven	300	...	200	...
Sunhigh	100	200	350	...
Valiant	200	100	300	100

SWEET CHERRIES	Per 10	Per 100
1-yr., $\frac{1}{2}$ -in. cal. and up.....	\$13.50	\$125.00
1-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	12.00	110.00
1-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	9.50	85.00

	$\frac{1}{2}$ -in. cal.	$\frac{3}{4}$ -in. cal.	$\frac{1}{2}$ -in. cal.	$\frac{1}{4}$ -in. cal.
Black Tartarian	300	200	300	...
Napoleon	200	200	300	...
Windsor	500	300	200	...

SOUR CHERRIES	Per 10	Per 100
2-yr., $\frac{1}{2}$ -in. cal. and up.....	\$12.00	\$110.00
2-yr., $\frac{3}{4}$ to $\frac{1}{2}$ -in. cal.....	11.00	100.00
2-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	9.50	85.00
2-yr., $\frac{1}{4}$ to $\frac{1}{8}$ -in. cal.....	7.50	70.00

	$\frac{1}{2}$ -in. cal.	$\frac{3}{4}$ -in. cal.	$\frac{1}{2}$ -in. cal.	$\frac{1}{4}$ -in. cal.
English Morello	400	500	200	100
Early Richmond	400	200	...	...
Montmorency	300	500	300	1000

5-N-1 APPLE	Per 10	Per 100
3-yr., 4 to 6 ft., $\frac{1}{2}$ -in. cal. and up.....	\$17.50	\$165.00
200 4-N-1, \$1.25	...	...
200 3-N-1, 1.00	...	...

APRICOT	Per 10	Per 100
2-yr., $\frac{1}{2}$ -in. cal. and up.....	\$13.00	\$120.00
2-yr., $\frac{3}{4}$ -in. cal. to $\frac{1}{2}$ -in. cal.....	12.00	110.00
2-yr., $\frac{1}{2}$ to $\frac{1}{4}$ -in. cal.....	10.00	90.00
2-yr., $\frac{1}{4}$ to $\frac{1}{8}$ -in. cal.....	8.00	70.00

	$\frac{1}{2}$ -in. cal.	$\frac{3}{4}$ -in. cal.	$\frac{1}{2}$ -in. cal.	$\frac{1}{4}$ -in. cal.
Early Golden	100	200	50	50
Moorpark	150	...	200	200

FLOWERING CRAB APPLE	Per 10	Per 100
5 to 6 ft.	\$13.50	\$125.00
4 to 5 ft.	12.50	115.00
3 to 4 ft.	10.00	90.00
2 to 3 ft.	8.50	75.00

	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.
Bechtel's .....	...	...	300	200
Evelyn .....	...	...	200	...
Hope .....	...	...	350	...
Katherine .....	...	400	100	...
Redfield	150	150	...	...
Red-Flowering Crab Apple	400	300	...	...
Red Silver	400	300	100	...

DEUTZIA GRACILIS	Per 10	Per 100
400 12 to 15 ins.	\$4.00	\$35.00
300 2-yr., dormant plants.....	6.00	50.00

GOLD-LEAVED NINEBARK	Per 10	Per 100
(Physocarpus opulifolius luteus aureus)	...	...
800 2 to 3 ft.	4.50	40.00

TREE WISTARIA	Per 10	Per 100
3 to 4 ft.	32.50	300.00
200 Purple .....	...	...
100 White .....	...	...
300 Pink .....	...	...

PHILADELPHUS (MOCK ORANGE)	Per 10	Per 100
coronarius aureus (Golden Mock Orange)	...	...
15 to 18 ins.	6.00	55.00
12 to 15 ins.	7.50	70.00
18 to 24 ins.	10.00	90.00

COTONEASTER DIVARICATA	Per 10	Per 100
12 to 18 ins.	7.00	65.00
2 to 3 ft.	8.00	75.00

RUDELLIA	Per 10	Per 100
No. 1	3.00	25.00
200 Charming
300 Ile de France
200 Burgundy
200 White Spike

WHOLESALE PRICE SCHEDULE OF PATENTED ROSES

Retail	5 to 19	20 to 99	100 to 249	250 and up
\$3.00	\$1.40	\$1.50	\$1.40	\$1.30
2.75	1.50	1.40	1.30	1.20
2.50	1.40	1.25	1.20	1.10
2.25	1.25	1.15	1.05	.95
2.00	1.10	1.00	.95	.85
1.75	1.00	.90	.80	.75
1.50	.90	.75	.70	.65

Medium grade 20% less than No. 1
California and New York Grown.

Retail	Price	No. 1	No. 1 1/2
1.75	Floribundas	180	400
2.00	Independence (Plant Pat. No. 1036)	180	400
2.00	Jimmy Cricket (Plant Pat. No. 1346)	230	145
2.00	Ma Perkins (Plant Pat. No. 1143)	230	175
2.00	Masquerade (Plant Pat. No. 975)	240	115
1.75	Pinocchio (Plant Pat. No. 484)	600	75
1.75	Red Pinocchio (Plant Pat. No. 812)	200	...
2.75	Spartan (Plant Pat. No. 1357)	300	200
2.25	Hybrid Teas	...	...
2.25	Charlotte Armstrong	100	100
2.25	(Plant Pat. No. 455)	100	100
2.25	Forty-Niner (Plant Pat. No. 792)	100	100
2.25	Grand Mere Jenny (Plant Pat. No. 1148)	800	100
2.25	Mirandy (Plant Pat. No. 632)	700	300
2.75	Mojave (Plant Pat. No. 1176)	50	200
2.50	Fence (Plant Pat. No. 591)	1300	...

On quantity lots, please send your list or phone it in for special quantity prices. Also, if we have truckloads going to your area, we can arrange delivery, at cost.

KELLY BROS. NURSERIES, INC.

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DANVILLE, N. Y.

BENCH ROOT GRAFTS**FLOWERING CRAB APPLE**

Almey, pink (\$25.00 per 100)
 Atrosanguinea, carmine
 Eleyi, purple-red
 Floribunda, pink and white
 Hopa, pink
 Prince George, double pink
 Parkman, pink
 Flame, white
 Redfield, red
 Red Silver, red
 Spectabilis, pink and white
 Theifera, pink and white

FLOWERING QUINCE

Charming, shell-pink
 Coral Beauty, coral
 Snow, white
 Stanford Red, red

HYBRID FRENCH LILACS

Alice Eastwood, pink
 Charles X, claret-red
 Paul Hariot, purple
 Paul Thirion, claret-red
 Lucie Baltet, pink
 President Vigor, blue
 President Lincoln, blue
 Mme. A. Buchner, pink
 Mme. Chas. Souchet, pale blue
 Mme. Lemoine, white
 Firmament, blue
 Vestale, white
 Ellen Willmott, white
 All above root grafts, \$18.00 per 100; \$175.00 per 1000.

Pink Dogwood
 Viburnum juddi
 Dwarf Bartlett Pear
 All above, \$25.00 per 100.

JAPANESE CHERRIES

Weeping Pink, single
 Kwanzan, double pink
 All cherries, \$25.00 per 100;
 \$225.00 per 1000.

FLOWERING PLUM

Prunus Thundercloud, red leaves
 Prunus triloba, double pink

TERMS: Cash earns free packing or 25 per cent deposit, balance C.O.D.

Complete list on request.

RUMMEL NURSERIES

Pompton Plains 1, N. J.

trees developed wilt symptoms during the course of the summer. Infection in all symptomatic trees was confirmed by reisolation of the white mutant strain of the fungus.

Check for Root Grafts

Since most of the uninoculated trees that became diseased were adjacent to the trees inoculated through the stem, efforts were made to determine if these trees became infected through root grafts. The root systems of six diseased trees at one end of the row were excavated by washing away the surrounding soil. No root grafts were found. It is possible that grafts between small fibrous roots were broken before detection and that some root transmission did occur. However, two of the pistillate-flower-inoculated trees that developed wilt symptoms were located at the far end of the row from the stem-inoculated trees, a distance too great to account for their infection by root graft transmission.

The white mutant strain of the oak wilt fungus is not known to occur naturally in Missouri, and no overland spread of the disease has been observed in the nursery. The results of the study thus indicate that oak wilt infections can occur through injured flowers. This suggests the possibility that certain flower-feeding insects, if contaminated with the oak wilt fungus, could serve as vectors.

SPECIALIZED DATA LIST

Numerous plant societies and other horticultural organizations release, from time to time, publications containing specialized information about their particular fields. Such releases are invaluable to those who wish to keep up on new varieties and certain specific information that would be of little interest to the general reader.

L. A. Dougherty, extension economist in marketing at the University of New Hampshire, has issued a reminder that the New Hampshire agricultural extension service has compiled and published a list of sources of such specialized information. Copies may be obtained, without charge, as long as available by addressing Mr. Dougherty at Morrill Hall, University of New Hampshire, Durham, N. H., and asking for "Agricultural Economics Mimeograph No. 121."

PLANTING of one acre to ornamental shrubs was recently completed at Hobby Gardens, Sylacauga, Ala., announces Bert Zeigler, owner.

SURPLUS SALE
30,000 Shade Tree Liners

Per 100 Per 1000

NORWAY MAPLE
 (Acer platanoides)
 1-yr., S., 5 to 10 ins. \$10.00 \$50.00

HONEY LOCUST,
 Thornless
 (Gleditsia triacanthos inermis)
 1-yr., S., 6 to 12 ins. 8.00 40.00
PIN OAK (Quercus palustris)
 1-yr., S., 6 to 12 ins. 12.00 60.00

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Cash with order earns 2% discount and free packing.

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ROSEBUSHES

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 ... to reach you full of vitality.

✓ Service

✓ Quality

✓ Satisfaction

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300 acres of choice Evergreens
 ready for immediate resale
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Trees and Shrubs

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Sherman-Gannon EARTHCAVATOR

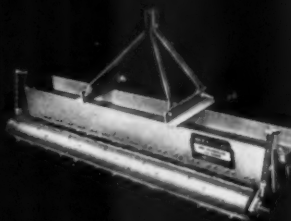
Scarifies, Grades, Levels, Backfills



Ideal, all-purpose unit. Lever operated from seat permits choice of scarifying, grading, leveling, or backfilling. Teeth locked to prevent falling out. Extra deep ripping, 65 in. and 72 in. models for Ford Tractor; 80 in. for Fordson Major Diesel. Write for Bulletin No. SP729.

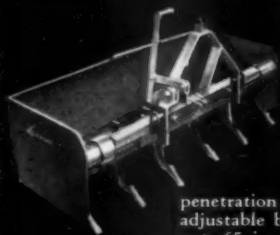
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"6 tools in one" for the complete preparation of any seedbed. Scarifies, grades, levels, breaks clods, pulverizes, rolls firm. Also seeds (with attachment). Takes over after rough grading to eliminate plowing or discing. Write for Bulletin No. SP733.



Sherman-Gannon LANDSCAPER

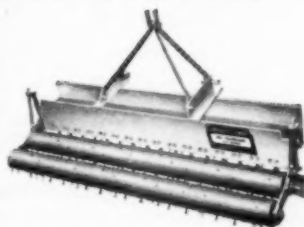
One Tool for Four Jobs



Scrape and scarify at the same time or backfill at touch of lever. Flat sides for close work. Hinged back gate can be locked to permit front blade penetration when grading. Front blade acts as shoe to keep gate from deep penetration when backfilling. Teeth are adjustable but locked to prevent falling out. 65 in. and 72 in. models for Ford Tractor. Write for Bulletin No. SP729.

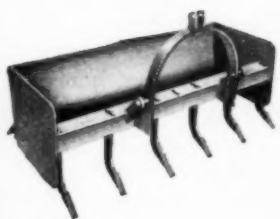
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Available in three bushel single section model for use with Sherman-Gill single or double-roller soil tool and in four bushel double section model for double-roller soil tool for large area jobs where seed separation is desirable. Provides excellent distribution and coverage. Reduces waste. Write for Bulletin No. SP734.



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SOIL WORKING TOOLS • CRANES AND EXCAVATORS

Ohio Short Course

Pruning Ornamental Shade Trees

Reported by Bryson L. James

A featured speaker on the arborists' day program at the annual Ohio short course, reported in the February 15 issue of the American Nurseryman, was M. V. Staples, Davy Tree Expert Co., Kent, O. He prefaced his discussion of pruning practices for ornamental shade trees by urging the Ohio arborists to contribute to the fund established by the National Shade Tree Conference for the production of a motion picture on trees.

The film is to be used to educate the public on the value of good trees, their care and maintenance. When completed, the film will be available for rental by any member of the N. S. T. C. for showing to local groups.

Of the estimated \$22,000 cost of the film, approximately \$7,000 has been donated to date.

Use Pruning in Narrow Sense

According to Mr. Staples, arborists who earn all or a part of their living by maintenance of trees on home grounds usually use the word pruning to designate the process of removing unwanted or dead limbs from sizable deciduous trees. Correctly used, he said, the word covers much more than that single phase of service.

The practice of removing portions of woody plants to alter their appearance, growth, size or shape; to promote fruitfulness, or to influence the size, quality or location of fruit or flowers is as old as civilization. It varies in degree from the extreme pruning required to produce an espaliered apple tree to the mere act of removing a broken twig.

Insofar as the economics of pruning as practiced by operating arborists is concerned, Mr. Staples maintains that one can save money for his clients and render a better service by giving more attention to young trees and spending less time on mature trees. The need for pruning starts at the moment a tree is planted. In fact, pruning done at the time of planting will influence the character of the tree as long as it lives.

The first pruning required, of course, is that which restores the balance between the roots that were planted and the top structure they

are expected to support. Fortunately, vigorous young trees have an amazing reserve of stored food, and it is not necessary to strike an absolute balance.

Early Pruning Operations

At this time in a tree's development, broken twigs and poor formations should be removed. Mr. Staples emphasized the removal of poor formations, for, as he pointed out, this is probably the only opportunity the arborist has to eliminate bad crotches and other malformations that cause the early destruction or mutilation of many mature trees.

At this time, too, one should start

to create a well-defined trunk that will give the ultimate clearance needed for the particular function of the tree in question. All tiny twigs along the trunk should not be eliminated at one time, however, as they carry a few leaves that are fully exposed to constant sunlight, and their presence encourages increased trunk diameter and a general stiffening that is desirable. Ultimately, they must come off if the tree is to serve in an area where people walk under it, or if lawns are to be maintained.

Mr. Staples said that arborists are often guilty of damaging adolescent or mature trees by removing large branches in order to provide clearance, relieve an overshadowed condi-

QUALITY NURSERY STOCK

Fruit trees including dwarfs and standard 5-N-1 Apple, Indian Summer Raspberries, ornamental trees and shrubs in variety. *Euonymus fortunei vegetus* in quantity. New trade list and specimen (dig yourself). List upon request.

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NOVAK'S NURSERY

Houtzdale, Pa.

Per 1000

Scotch Pine

3 to 6 ins., 2-yr.\$25.00
5 to 12 ins., 3-yr. 30.00

Blue Spruce

3 to 6 ins., 3-yr. 25.00
5 to 8 ins., 3-yr. 35.00
6 to 10 ins., 4-yr. 45.00

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Lodense or Box Privet

Extremely hardy, almost evergreen in real protected places. Very dwarf and grows only about 12 ins. a year. A well-kept hedge is a perfect substitute for a boxwood hedge. A model landscape plant.
10,000 2-yr., 10 to 12 ins., \$12.00 per 100

VIBURNUM

Heavily branched landscape material.
Each
700 *Viburnum dentatum*, 3 to 4 ft.60c
200 " 2 to 3 ft.45c
300 *Viburnum dilatatum*, 2 to 3 ft.60c
160 *Viburnum lantana*, 4 to 5 ft.70c

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Lima, N. Y.

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1 and 2-yr. transplants to the trade. List upon request.

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MIST-O-GATION, INC.

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• **ORNAMENTALS**



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with D-D[®] Soil Fumigant

Nemagon[®] Soil Fumigant

When tiny but destructive nematodes attack and destroy plant roots, vital soil nourishment is cut off from the growing plant. Serious stunting results and your profits are sharply reduced. You can cut these losses by knocking out nematodes with D-D soil fumigant or Nemagon soil fumigant.

D-D SOIL FUMIGANT. Powerful D-D soil fumigant is an easy-to-use liquid. Inject it directly into the ground with gravity-flow or pressure equip-

ment. Underground, it becomes a soil-penetrating gas, killing harmful nematodes as it spreads.

NEMAGON SOIL FUMIGANT. Or you can use Nemagon soil fumigant. Available in granular or liquid form, you can apply it in a fertilizer mix, drench, or inject it directly into the soil with conventional equipment. Once in the ground, it becomes a gas which spreads, killing nematodes. *Nemagon soil fumigant can be applied around*

many established plant roots.

The initial low cost of D-D and Nemagon soil fumigants is returned many times with bigger, healthier plants . . . greater profits for you.

This season give your nursery stock the protection it needs for healthy growth. Use D-D or Nemagon soil fumigant. Your local pesticide dealer will be glad to give you latest information on their applications. See him today.

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CHRISTMAS TREE PLANTATION STOCK

PINE—SPRUCE—FIR Seedlings and Transplants

	Per 100	Per 1000
Norway Spruce (Picea excelsa)		
(2-0), 2-yr., S.,		
2 to 3 ins.	\$ 7.00	\$18.00
3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T.,		
5 to 10 ins.	10.00	50.00
(2-2), 4-yr., T.,		
6 to 12 ins.	12.00	60.00
8 to 14 ins.	16.00	90.00
Scotch Pine (Pinus sylvestris)		
(2-0), 2-yr., S.,		
2 to 4 ins.	4.00	15.50
3 to 6 ins.	5.00	22.00
4 to 8 ins.	6.00	25.00
(2-2), 4-yr., T.,		
6 to 10 ins.	10.00	50.00
8 to 14 ins.	15.00	60.00
Blue Spruce (Picea pungens) (Colorado Blue Spruce)		
(2-0), 2-yr., S.,		
2 to 3 ins.	4.00	20.00
3 to 4 ins.	6.00	25.00
(3-0), 3-yr., S.,		
3 to 6 ins.	8.00	35.00
6 to 10 ins.	10.00	55.00
Austrian Pine (Pinus nigra)		
(2-0), 2-yr., S.,		
2 to 4 ins.	4.00	20.00
3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T.,		
6 to 10 ins.	12.00	70.00
White Spruce (Picea alba) Excellent blue-gray color.		
(2-0), 2-yr., S.,		
3 to 6 ins.	5.00	25.00
(3-0),		
2-yr., S., 4 to 8 ins.	6.00	30.00
3-yr., S., 6 to 12 ins.	8.00	40.00
Concolor Fir (Abies concolor)		
(2-0), 2-yr., S.,		
2 to 3 ins.	8.00	35.00
3 to 6 ins.	10.00	50.00
(3-0), 3-yr., S.,		
4 to 8 ins.	15.00	70.00
Douglas Fir		
(2-0),		
2-yr., S., 2 to 3 ins.	6.00	25.00
3-yr., S., 3 to 5 ins.	8.00	35.00

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tion, or open up a view. There is probably no other method an arborist can use to achieve these results when he must work with an already established tree, but the fact is, large pruning scars do not help the appearance or well-being of any deciduous tree; and all too often large pruning scars invite decay.

Arborists are well aware of the manner in which trees grow, but many of their clients are not. Certainly, one can and should sell property owners on the need for establishing ultimate clearance while trees are young and the branches to be removed are small. In some cases, this gives an unbalanced appearance to young trees, but it is the correct procedure, and the client should be convinced of its effectiveness whenever possible.

Pruning Need Decreases

As shade trees approach maturity, there is less need for pruning. At this stage, slight thinning may be desirable from time to time, but Mr. Staples contends that it should be confined to inside twigs in heavily shaded locations. Such growth is often encountered in Norway maples, lindens and flowering crab apples. Many trees need little or no pruning. If the early formative pruning has been adequate, trees will need little more until they reach full maturity.

Probably most of the man-hours spent pruning trees on the home grounds are devoted to hunting out the dead branches in existing trees of mature size. In many cases, these trees were woodland trees that were there before the home was built. Some of them are trees that were planted many years ago and did not receive adequate attention when small, or were not suitably located or spaced. In many cases they have not had consistent care.

The demand for this type of pruning stems largely from the fact that the homeowner grows tired of raking up dead twigs and branches after every windstorm. This sort of pruning is necessary both for appearance and safety, but it is time-consuming and expensive. Except where large, dangerous branches are concerned, the arborist could render a better service by convincing the owner that what his trees actually need is annual feeding.

A neglected phase of pruning applies to declining forest giants that still survive on many older places. When the arborist is confronted with the problem of reviving or prolonging the life span of an aging specimen, according to Mr. Staples, he is well justified in cutting back ends

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4 to 8 ins., 3-yr., S.....	.15	..
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6 to 10 ins., 3-yr., T.....	.45	..
Azalea kaempferi (Torch Azalea)		
3 to 6 ins., 2-yr., T.....	.35	..
6 to 10 ins., 3-yr., T.....	.45	..
Azalea mollis (Chinese Azalea)		
6 to 8 ins., 2-yr., T.....	.22	.18
8 to 12 ins., 3-yr., T.....	.45	.40
Azalea mucronulatum , lavender shades		
4 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 3-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.50
Buxus sempervirens welleri		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 3-yr., T.....	.55	..
Chamaecyparis filifera aurea		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 3-yr., T.....	.55	..
Chamaecyparis lawsoniana allumi (Columnar Blue Cypress)		
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
Chamaecyparis plumosa aurea		
8 to 10 ins., 3-yr., T.....	.40	.35
10 to 15 ins., 3-yr., T.....	.50	.45
Cotoneaster horizontalis		
4 to 8 ins., 3-yr., T.....	.25	..
Euonymus fortunei erectus		
10 to 12 ins., 2-yr., T.....	.28	.25
12 to 18 ins., 3-yr., T.....	.35	.30
Euonymus radicans coloratus		
12 to 18 ins., 3-yr., T.....	.35	.30
Euonymus radicans vegetus		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
Hex crenata (Pyramidal)		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
Hex crenata convexa (bullata)		
10 to 12 ins., 2-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.65	.55
12 to 15 ins., 5-yr., field row spaced.....	1.00	.90
Hex crenata hetzi		
8 to 10 ins., 2-yr., T.....	.40	.38
10 to 15 ins., 3-yr., T.....	.55	..
Hex rotundifolia (Round-leaved)		
8 to 10 ins., 2-yr., T.....	.38	.35
10 to 12 ins., 3-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.70	.55
12 to 15 ins., 5-yr., T..... field row spaced.....	1.00	.90
Juniper, Andorra (Purple Andorra Juniper)		
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.50	.45
Juniperus canadensis aurea (Golden Canadian Juniper)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..

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All plants listed below priced in the ground. Purchaser to call for at the nursery. About 10,000 in this block. Will give a block clearance price on large amounts.

	Each 100 rate	Each 1000 rate
Hex crenata convexa (bullata)		
12 to 15 ins.....	\$1.50	\$1.10
15 to 18 ins.....	2.00	1.60
18 to 24 ins.....	2.50	..
Hex rotundifolia		
12 to 18 ins.....	1.50	1.10
18 to 24 ins.....	2.00	1.60
Juniperus glauca hetzi		
18 to 24 ins.....	2.00	1.60
24 to 36 ins.....	2.40	1.75
Juniperus pfitzeriana compacta , Nelson's compact variety		
12 to 15 ins.....	1.50	1.10
15 to 18 ins.....	2.00	1.50
Taxus cuspidata (about 125 of these plants)		
4 to 5-ft. spread.....	8.00	..
(10 to 200 at the 100 rate; 200 up at the 1000 rate.)		

	Each 100 rate	Each 1000 rate
Juniperus glauca hetzi (Hetzi Juniper)		
8 to 10 ins., 2-yr., T.....	\$0.35	\$0.30
10 to 12 ins., 2-yr., T.....	.40	.35
12 to 15 ins., 3-yr., T.....	.55	.48
Juniperus hibernica fastigiata (Compact Irish Juniper)		
10 to 12 ins., 2-yr., T.....	.38	.33
12 to 15 ins., 3-yr., T.....	.45	.40
Juniperus pfitzeriana, regular		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
Juniperus pfitzeriana aurea (Golden Pfitzer Juniper)		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.65	..
Juniperus pfitzeriana compacta , Nelson's compact variety		
8 to 10 ins., 1-yr., T.....	.35	.30
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.65	..
Koeleruteria paniculata		
2-yr., S., field bed.....	.12	.08
6 to 12 ins., 3-yr., T.....	.18	.15
Leucothoe catesbaei		
8 to 10 ins., 3-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
Liquidambar styraciflua		
2-yr., S., bed run.....	.10	.08
6 to 12 ins., 3-yr., T.....	.15	.12
Mahonia aquifolium		
2 to 5 ins., 3-yr., S.....	.20	.18
4 to 8 ins., 4-yr., S.....	.25	.20
Picea alba (White Spruce)		
3 to 6 ins., 2-yr., S.....	.05	.02½
6 to 12 ins., 3-yr., S.....	.08	.04

	Each 100 rate	Each 1000 rate
Picea excelsa (Norway Spruce)		
6 to 12 ins., 4-yr., T.....	\$0.12	\$0.06
8 to 14 ins., 4-yr., T.....	.16	.09
Picea pungens (Colorado Blue Spruce)		
4 to 6 ins., 4-yr., T.....	.20	.18
6 to 8 ins., 4-yr., T.....	.35	.32
Pieris floribunda (Mountain Andromeda)		
6 to 8 ins., 2-yr., T.....	.35	..
Pieris japonica		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 12 ins., 3-yr., T.....	.65	..
Pinus mugo (Dwarf Mugo Pine)		
3 to 6 ins., 3-yr., T.....	.25	.20
Pinus nigra (Austrian Pine)		
5 to 10 ins., 4-yr., T.....	.12	.07
Pinus sylvestris (Scotch Pine)		
5 to 8 ins., 4-yr., T.....	.10	.05
8 to 14 ins., 4-yr., T.....	.15	.06
Pseudotsuga douglasii (Douglas Fir)		
2 to 3 ins., 2-yr., S.....	.06	.02½
3 to 5 ins., 3-yr., S.....	.08	.03½
Pyracantha coccinea lundii		
6 to 10 ins., 2-yr., T.....	.32	.30
10 to 15 ins., 3-yr., T.....	.40	.38
Rhododendron carolinianum		
2 to 4 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
Rhododendron catawbiense		
4 to 8 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
Rhododendron Hybrid , various colors		
2 to 6 ins., 3-yr., T.....	.45	..
8 to 10 ins., 4-yr., T.....	.55	..
8 to 10 ins., 4-yr., T.....	.85	..
10 to 15 ins., 5-yr., T.....	1.00	..
Taxus capitata (Upright Yew)		
4 to 8 ins., 4-yr., T.....	.40	.35
8 to 10 ins., 4-yr., T.....	.50	.48
Taxus cuspidata (Spreading Yew)		
6 to 8 ins., 2-yr., T.....	.38	.35
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.45
Taxus media hickii (Hicks' Yew)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
Thuja occidentalis douglasii aurea (Geo. Peabody Golden Arborvitae)		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
Thuja occidentalis elegantissima lutea		
10 to 12 ins., 3-yr., T.....	.45	.40
12 to 15 ins., 4-yr., T.....	.55	.50
15 to 18 ins., 4-yr., T.....	.65	..
Thuja occidentalis globosa		
8 to 10 ins., 2-yr., T.....	.40	.35
10 to 15 ins., 4-yr., T.....	.65	..
Thuja occidentalis pyramidalis		
10 to 12 ins., 2-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
15 to 18 ins., 3-yr., T.....	.65	..
Tsuga canadensis (Hemlock)		
8 to 10 ins., 4-yr., T.....	.40	..
10 to 15 ins., 5-yr., T.....	.55	.50
Viburnum opulus nanum		
2-yr., T.....	.30	..

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of all larger branches, thereby reducing the tree's physical load and at the same time stimulating new growth near the point of severance. Mr. Staples said that cutting back is not so beneficial to an aged tree as a good fertilization; however, it is most effective when combined with generous feeding and, in some cases, aeration.

Pruning Evergreens

Deciduous trees account for the major portion of the arborist's in-

come, but why do so many arborists seem to avoid the subject of evergreens altogether or shrug it off as lightly as possible? One does not have to be an expert on identification to do a fairly good job of pruning evergreens. Neither do seasonal limitations have much to do with the success or failure of evergreen pruning methods.

Almost all of the common needle-bearing evergreens can be divided easily into two general classes and pruned accordingly, stated Mr.

Staples. The first group is the coarse-growing sorts or those with determinate growth — chiefly the pines, spruces and firs. With a few exceptions, these are tree types and ultimately attain considerable size. As a rule they require little pruning beyond removal of dead branches; however, pruning or shearing can be done if needed.

In pruning evergreens in this group, one should not remove more than three quarters or two thirds of the current growth. If sheared in this

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2000 Autumn Queen, white	5.00
Iris pumila, spring-blooming	
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2000 Iceberg, blue-white	12.00
1000 Sambo, dark violet-purple	5.00
Iris spuria, yellow-banded Iris	
1000 Iris spuria ochroleuca gigantea	10.00
1500 Pyrethrum Robinson's Giant Hybrids	10.00
500 Pyrethrum Robinson's Dark Crimson	10.00
400 Potentilla warren	12.00
1500 Tritoma Primrose Beauty	15.00
500 Tritoma Springtime	15.00
500 Polemonium Blue Pearl (Jacob's Ladder)	14.00

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10 to 12 ins.	50.00	450.00
12 to 15 ins.	75.00	675.00

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manner, the trees will suffer no ill effects, and the practice will serve to thicken them and to keep them in bounds.

In the second group are all of the evergreens with fine twigs and indeterminate growth. In northern latitudes, arborists are mostly concerned with the various species of juniper, taxus, arborvitae, false cypress and hemlock. Some of these will grow into large trees, but many of them are evergreen shrubs and should be treated in that manner.

All of them have the ability to start growth from latent or adventitious buds. This regrowth occurs not only on new wood but also well back on heavier stems. Mr. Staples reported having seen strong sprouting occur on 5-year wood.

Evergreen Damage Possible

Evergreens in this group therefore, can be pruned in almost any desired manner and to whatever extent the circumstances justify. There are, of course, limitations to the last statement. Severe shearing during hot, dry weather may lead to severe sunscald, and cutting an entire tree back to 4-year-old wood could prove fatal.

Mr. Staples believes, however, that most arborists are guilty of too little, rather than too much, pruning of evergreens. As proof of this statement he cited the prevalence of foundation plantings that have been allowed to grow up over first and second-story windows.

Arborists, said Mr. Staples, usually do an excellent job on flowering crab apples and dogwoods, but seem to consider lilacs, weigelas, spiraeas and other flowering shrubs as beneath their dignity. Plants of this latter class are as thoroughly neglected as the shrubby evergreens, he stated, adding that there is a wealth of literature on the subject of shrub pruning and that arborists who do not know shrubs and their care should get a book and follow directions. He said that arborists are neglecting an important and lucrative phase of the business by failing to prune their clients' shrubs, both evergreen and deciduous.

Plants Not Eternal

Mr. Staples also charged that professional arborists, as well as landscape architects and nurserymen, have failed to impress their clients with the simple fact that plants are mortal. It is true, of course, that most of the major trees have a longer life span than man, but this should not be construed to mean that they will be things of beauty forever. The life span of trees and woody shrubs

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Scotch Pine (Race Noble)						
(2-0), 2 to 4 ins.	\$3.00	\$15.00	\$12.00	\$10.00		
(2-0), 3 to 6 ins.	3.50	18.00	15.00	12.50		
(2-0), 4 to 8 ins.	4.00	22.00	20.00	15.00		
(2-0), 7 to 14 ins.	4.50	27.50	25.00	22.50		
(3-1), 5 to 10 ins.	5.00	35.00	35.00			
Scotch Pine (East Anglia and West German)						
(2-0), 2 to 4 ins.	3.50	17.00	15.00	12.00		
(2-0), 3 to 6 ins.	4.00	20.00	18.00	16.00		
(2-0), 4 to 8 ins.	4.50	24.00	22.00	20.00		
(2-0), 7 to 14 ins.	5.00	27.00	25.00	22.00		
(3-1), 5 to 10 ins.	5.50	35.00	35.00			

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depends on inherent vigor and ecological factors; their useful life in a decorative sense is another matter.

A majority of the shrubs now in general landscape use have an attractive and useful life span of less than 20 years, even with good maintenance. The useful life span of any plant used for enhancement was defined by Mr. Staples as that period during which it can be maintained in a vigorous, attractive form that is in scale with its area and with adjacent structures.

It should be pointed out to homeowners that their landscape decor is almost as perishable as their interior decorating. What is more, he said, the rejuvenation of old, overgrown shrubs and evergreens is much better as a theory than as a practice. In spite of some excellent texts on the subject, the results are seldom worth the effort. Mr. Staples suggested that the best answer to the overgrown shrub problem is usually a planting program.

In conclusion, Mr. Staples emphasized that the arborist can and should broaden his pruning practice to include all woody plant material.

WEST VIRGINIANS' MEET

[Continued from page 8]

field, opened the session February 7 with a business meeting. The date for the summer meeting, which is to be held on the West Virginia University campus at Morgantown, was set for August 6 to 8. Fred Wildern, William Dieckmann & Sons, Inc., Wheeling, was appointed chairman of a committee to study the nomination of honorary members to the association. The possibility of increased displays at winter meetings was discussed.

The business meeting was followed by a talk by Harry Schrode, J-M Trading Corp., Chicago, on the production and use of peat moss. It was pointed out that peat moss amends heavy clay soils and light sandy soils, producing better tillage, water retention and aeration. Peat moss varies in its pH, or degree of acidity. Lime can be added to acid peats (pH 3.5) at the rate of four to five pounds per bale, if increased soil acidity is not desired. It was pointed out that some peats last longer in the soil than others. Slides were shown of the German peat industry, which is about 50 years old, and of the industry in Canada, which has been developed during the past 10 years. Tours were made of the garden centers of the Green Tree Nursery and Conner & Amos, Inc. Inclement weather prevented tours of local nurseries in the Charleston area.

SCHROTH'S NURSERY

It pays to plant
The Best

SEEDLINGS

Excellent Root
Systems, Hardy
ORDER NOW!

Grown at High Altitude—In the Heart of the Original Pine Forests

WHOLESALE PRICES

PINE SEEDLINGS

	Per 100	Per 1000
Scotch Pine, Riga		
2-0, 2 to 4 ins.	SOLD OUT	
2-0, 4 to 8 ins.	\$5.00	\$30.00
3-0, 8 to 16 ins.	7.00	

Scotch Pine, German		
2-0, 2 to 4 ins.	2.50	12.50
2-0, 5 to 8 ins.	5.00	30.00

Scotch Pine, French		
2-0, 2 to 4 ins.	2.50	12.50
2-0, 4 to 6 ins.	4.50	25.00
2-0, 4 to 8 ins.	5.00	30.00

The above is Auvergne strain, short needle, blue-green color.

2-0, 3 to 5 ins.	4.00	20.00
2-0, 5 to 9 ins.	6.00	35.00

The above is Hagenau strain, long needle.

NOTE: In order to satisfy the individual demands of our many customers, we are offering the above strains of Scotch Pine. They are all highly recommended by our seed suppliers for good color, straight stems, compactness and fast-growing characteristics. They are grown from the best seed obtainable, under the best growing conditions, to develop the healthiest seedlings possible to withstand drought, disease and insect damage.

Austrian Pine		
2-0, 3 to 4 ins.	3.00	15.00
2-0, 4 to 6 ins.	4.50	25.00
3-0, 8 to 14 ins.	5.00	30.00
4-0, 12 to 18 ins.	10.00	

White Pine		
2-0, 3 to 5 ins.	4.00	20.00
3-0, 5 to 9 ins.	SOLD OUT	

AMERICAN RED PINE, PONDEROSA PINE AND MUGHO PINE NOT AVAILABLE THIS YEAR.

5% discount on 25,000 or more of combined species.
(Exclusive of seedlings \$15.00 per 1000 and under.)

We guarantee all stock represented herein as to size and quality, or your money cheerfully refunded.

The name SCHROTH stands for the best. Your order will convince you. Make a Christmas tree planting this season. Scotch is the best bet. Do not delay. Send for complete listing and terms.

All stock offered subject to prior sale.

SPRUCE SEEDLINGS

	Per 100	Per 1000
Norway Spruce		
2-0, 3 to 5 ins.	\$ 3.00	\$ 20.00
2-0, 5 to 8 ins.	4.00	30.00
3-0, 6 to 12 ins.	SOLD OUT	
4-0, 12 to 16 ins.	10.00	60.00

Colorado Blue Spruce, from select seed. Color very good.		
3-0, 3 to 5 ins.	3.50	20.00
3-0, 5 to 9 ins.	5.00	35.00
4-0, 6 to 12 ins.	10.00	60.00
4-0, 12 to 14 ins.	20.00	120.00

White Spruce		
2-0, 3 to 5 ins.	3.00	20.00
3-0, 5 to 9 ins.	5.00	30.00
4-0, 6 to 10 ins.	6.00	35.00
4-0, 9 to 14 ins.	13.00	70.00

Engelmann Spruce		
2-0, 2 to 4 ins.	2.50	15.00
2-0, 4 to 6 ins.	4.00	25.00
3-0, 6 to 12 ins.	6.00	35.00

Black Spruce (Mariana)		
3-0, 5 to 8 ins.	SOLD OUT	
3-0, 8 to 14 ins.	SOLD OUT	

FIR SEEDLINGS

	Per 100	Per 1000
Douglas Fir (Glauc)		
2-0, 2 to 4 ins.	\$3.50	\$20.00
2-0, 4 to 8 ins.	6.00	35.00
Concolor Fir		
2-0, 2 to 4 ins.	3.50	20.00
2-0, 4 to 6 ins.	5.00	50.00

LARCH SEEDLINGS

European Larch		
3-0, 8 to 14 ins.	SOLD OUT	

We Do Not Have Any Transplants of Any Kind,
or Chestnut Seedlings for Spring Planting.

SCHROTH'S NURSERY

INDIANA, PA.

SPRING, 1958

A few items in quantity.

Juniper, Pfitzer, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins., 2 to 2 1/2 ft.

Other Junipers in variety.

Dogwood White, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Dogwood Pink, 3 to 4 ft., 4 to 5 ft.

Crab Apple, Hops and Eleyi, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Crab Apple, Bechtel's Double-Flowering, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

Elm, Chinese, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

These Elms have unusually straight stems.

Maple, Norway, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, rubrum, 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, schwedleri, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Maple, Soft, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Locust, Thornless, 6 to 8 ft., 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Oak Pin, 1 1/4-in. cal., 2-in. cal.

Redbud, 3 to 4 ft., 4 to 5 ft.

Thorn, cordata, 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

Thorn, crugalli, 3 to 4 ft., 4 to 5 ft.

Cornus paniculata, 3 to 4 ft., 4 to 5 ft.

Cotoneaster divaricata, 2 to 3 ft., 3 to 4 ft.

Privet, Amur North, 3-yr., heavy, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.

Privet, ibolium, 3 to 4 ft., 4 to 5 ft.

Purple Fringe, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Spiraea vanhouttei, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Viburnum dentatum, 3 to 4 ft., 4 to 5 ft.

Weigela rosea, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Forsythia Spring Glory, 3 to 4 ft., 4 to 5 ft.

Forsythia spectabilis, 4 to 5 ft., 5 to 6 ft.

Philadelphus coronarius, 3 to 4 ft., 4 to 5 ft.

Apricots, heavy, XX

Apple, 1-yr., 4 to 5 ft., 5 to 6 ft.

Apple, 2-yr., 11/16-in. cal. and XX

Cherry, Montmorency, 2-yr., XXX, XX, 11/16-in. cal.

Plum and Pear, 2-yr., XX, 11/16-in. cal.

C. M. HOBBS & SONS, INC. Bridgeport, Ind.

Phone: Indianapolis, CHapel 4-1812
350 Acres Established 1875

CHRISTMAS TREE SEEDLINGS AND NURSERY LINERS

	Per 100	Per 1000	Per 1000 in 10,000 lots
SCOTCH PINE (French Green) (Pinus sylvestris)			
2-yr., S. (2-0), 2 to 4 ins.	\$3.75	\$12.00	\$10.00
2-yr., S. (2-0), 2 to 6 ins.	4.00	16.00	14.50
2-yr., S. (2-0), 2 to 7 ins.	5.50	20.00	18.00
AUSTRIAN PINE (Pinus nigra)			
2-yr., S. (2-0), 2 to 4 ins.	3.75	12.00	10.00
2-yr., S. (2-0), 2 to 6 ins.	4.00	16.00	14.50
2-yr., S. (2-0), 2 to 7 ins.	5.50	20.00	18.00
WHITE SPRUCE (Picea glauca)			
2-yr., S. (2-0), 2 to 5 ins.	4.50	20.00	18.00
3-yr., S. (3-0), 4 to 8 ins.	6.50	30.00	27.50
3-yr., S. (3-0), 6 to 10 ins.	9.00	40.00	37.50
NORWAY SPRUCE (Picea excelsa)			
2-yr., S. (2-0), 3 to 6 ins.	5.50	20.00	18.00

TERMS: Cash with order please, or 25% deposit, balance before shipment.
All stock Michigan state-inspected and certified to be free from disease and insects.

All stock graded according to American Association of Nurserymen standards.
All seedlings at 100 rate quotations will be shipped postpaid. 1000 and 5000 lots will be shipped shipping charges collect. No packing charges. Write for quotations on lots of 50,000 or more.

This list cancels all previous lists. (S. indicates seedling.)
Spring shipping season about March 15 through June 30.
Write for complete price list and order blanks.

VAN'S PINES West Olive, Mich.
9 miles north of Holland, Mich., on U.S. 31—Phone: Holland, EX 6-0702
Hours: Daily 8 to 5; closed Sundays

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America's Finest
**ROSES • BULBS • PLANTS
and SHRUBS**

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Wasyide Gardens



**PEONIES • IRISES
DAY LILIES • POPPIES**
ALL YOUNG-GROWN STOCK
PROMPT SERVICE

Send for Wholesale Prices.
Visit our fields in early June.

WASSENBERG GARDENS

4 1/2 Miles East on U. S. 30
VAN WERT, OHIO • "The Peony City"

PLANT PATENTS

The following plant patents were issued recently, according to Rummeler & Snow, Chicago patent attorneys:

No. 1675. Rose plant. Robert G. Jelly, Richmond, Ind., assignor to E. G. Hill Co., Richmond. A new and distinct variety of rose plant of the polyantha class, characterized particularly as to novelty by its vigorous and upright habit of plant growth; its attractive foliage; its reduced cluster habit; its clean, free buds of exceptionally good color; its dark and brilliant red blooms, and the excellent keeping quality of its blooms as cut flowers.

No. 1676. Chrysanthemum plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the decorative type, characterized particularly as to novelty by its vigorous, compact and bushy habit of plant growth; its floriferousness; the large size of its flowers, and the distinctive orange-buff color tonality of its flowers.

No. 1677. Red rose plant. Paul F. De Vor, Pleasanton, Calif., assignor to Clarence Amling Roses, Inc., Santa Ana. A new and distinct variety of rose plant, characterized by the high-centered, urn-shaped, narrow bud; its large number of rose-red flowers per cluster; the slow opening of the bud and flower; its relative thornlessness; its spreading and willow habit of growth, and the lasting quality of the blooms on the plant and as cut flowers.

No. 1678. Pink rose plant. Paul F. De Vor, Pleasanton, Calif., assignor to Clarence Amling Roses, Inc., Santa Ana. A new and distinct variety of rose plant, being characterized as to novelty by the depth, brilliance and rhodamine-pink color of the blooms; its profuse blooming habit early, midseason and late; the size of the flowers and the large number of flowers per cluster; the good keeping quality of the flowers; its high-centered and urn-shaped bud; the healthy, vigorous growth of the plant, and its relative thornlessness.

LAKE COUNTY SCHOOL

[Continued from page 10]

tomers should be notified promptly and systematically by statements and past due notices within five days after due date and at regular intervals thereafter. Customers must be educated to pay promptly, and further credit should be suspended until they have paid part of a balance due or restored credit to a satisfactory basis.

Rehabilitation of a customer is important, because while he is still in debt, he will not be likely to patronize his creditor. What every businessman should want is to have this customer back in his store again. Therefore, it is necessary that the problem be discussed with the customer to show him how he can pay,



- effectively
- economically, with

Sequestrene^{*}

IRON CHELATES

For Ornamentals, Shrubs, Trees, Lawns, Fruit, Vegetables

When you walk between your rows of ornamentals, shrubs, and trees, is there any evidence of yellowing leaves or poor growth caused by iron deficiency (chlorosis)?

Such iron deficiency may not be caused by lack of iron in the soil, but because iron is unavailable to the plant. Iron may be "locked up" especially in high clay soils.

You can correct iron deficiency effectively with SEQUESTRENE iron chelates. SEQUESTRENE chelates provide an economical water soluble form of available iron which helps restore plants to full vigor, and create dark-green lush growth. This iron deficiency preventive and corrective can help you have a better percentage of marketable ornamentals, shrubs, and trees all season round. And, one gram of chelated iron around a tree provides as much usable iron as a pound of iron sulfate.

SEQUESTRENE iron chelates are compatible with commonly used pesticides and fertilizers. They may be used effectively as foliage sprays or as soil applications—alone or combined with fertilizers.

SEQUESTRENE iron chelates are available as: SEQUESTRENE NaFe IRON CHELATE. *For use on acid soils. 12% iron as metallic.* SEQUESTRENE 330 Fe IRON CHELATE. *For use on alkaline or slightly acid soils. 10.5% iron as metallic.* Available in bulk, 5-lb. bags, 1-lb. canisters, and 4-oz. polyethylene bags.

Control mites with CHLOROBENZILATE

CHLOROBENZILATE offers economical mite control with maximum safety. CHLOROBENZILATE controls Two-Spotted Mites, Spruce Mites, European Red Mites, Southern Red Mites, and Brown Clover Mites, including resistant strains.



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Pfitzer Juniper

Forsythia Lynwood Gold (top)
Forsythia Spring Glory (bottom)Pyracantha Kasan (top)
Pyracantha Lalandi (bottom)

Andorra Juniper

QUALITY STOCK

Andorra Juniper (Juniperus horizontalis plumosa), 6 to 10 ins.....	Each \$0.05
Euonymus patens Small, medium or large- leaved, 6 to 10 ins.....	.04
Pyracantha Kasan 5 to 6 ins.....	.08
Pyracantha Lalandi 5 to 6 ins.....	.05
Forsythia Spring Glory 6 to 10 ins.....	.04
Forsythia Lynwood Gold 6 to 10 ins.....	.05
Pfitzer Juniper 6 to 10 ins.....	.08

See classified ad under lining-out stock for other items. Less than 300, total order, add 2c per plant.

McININCH GREENHOUSES

St. Joseph, Mo.

THE FRIENDLY EVERGREENS, by L. L. Kumlien. Planting propagation, culture, digging and transplanting. 237 p. 500 illus., 82 in color. \$10.00, postpaid. American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

HANKOW CORKSCREW TREE

(Salix matsudana tortuosa)

Unusual landscape addition to tree lawn or shrub border. Branches both large and small grow upward with an exotic corkscrew twist.

A charming hardy Oriental tree that will delight you and your horticulturally interested customers.

Per Each Per Dozen
6 to 8 ft. \$3.50 \$35.00
Pot plant liners, late spring, 1959,
\$25.00 per 100.

BEARDSLEE NURSERY
PERRY, OHIO

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.

instead of dunning and threatening him. As soon as it becomes apparent that the customer is not able to pay or not willing to pay, the time has come to act decisively.

The sooner an overdue account is handled, the better are the possibilities of collection. The customer should be reminded by a telephone call, form card or form letter. Many times a simple reminder will produce the required results. The amount due should be mentioned at all times. If the reminder fails, a letter or other notice requesting response should be sent to learn the reason for nonpayment.

If there is a valid reason for nonpayment, it is useless to continue sending reminders, and the account should be charged off to profit and loss. However, the wise businessman will be watchful for recurrences of the situation. If the account appears to be collectible, it should be turned over for collection to one's legal counsel or collection agency. As a last resort, one may sue for collection if the amount warrants it.

Alan Cook, Madison, vice-president of the Lake County Nurserymen's Association, presided at the afternoon meeting, which began with a panel discussion, "How To Determine Costs and Selling Prices." Dr. L. C. Chadwick, O. S. U., was moderator, and Russell Champion, Champion Nurseries, Perry; William Cole, Cole Nursery Co., Painesville; H. A. Horton, Horton Nurseries, Inc., Painesville, and Charles Kohankie, landscape nurseryman, Painesville, presented their comments.

There were no hard and fast rules given, because much depends on the area in which the stock is being sold and the financial standing of the consumer. However, labor plays an important part in determining prices. If it constitutes over 35 per cent of the cost of an item, this is a danger signal. Other items of expense such as lime, fertilizer, packing, etc. are all figured on a percentage basis. If profits are not so high as they should be, the price of the stock must be increased or expenses curtailed.

Several members expressed the opinion that many nurserymen are so busy getting their work done that they have no time left for cost accounting. Members expressed the opinion that some relatively unprofitable items must be carried to give the customer a complete selection of material for landscape work, some of the loss being made up by more profitable items. Regarding cheap competition, particularly in

BE SURE TO BUY GOOD ROSES

KRIDER'S is a dependable source for a complete assortment of top-quality patented and standard sure-to-grow roses, at reasonable prices. Our modern refrigerated cold-storage rooms keep stock in perfect condition and full of pep throughout the season. We guarantee complete satisfaction. Order now for immediate or later delivery.

PATENTED ROSES—CALIFORNIA-GROWN

If you order 20 or more patented roses at least 10 of a kind you may take the 20 rate; 100 or more 10 of a kind take the 100 rate.

2-yr., No. 1				2-yr., No. 1			
	Each Per 10	Each Per 20	Each Per 100		Each Per 10	Each Per 20	Each Per 100
Chrysler Imperial, red	\$1.40	\$1.25	\$1.20	Carrousel, red	\$1.25	\$1.12	\$0.95
Charlotte Armstrong, cerise	1.25	1.12	1.05	New Yorker, red	1.25	1.12	.95
Mirandy, dark red	1.25	1.12	1.05	Mojave, orange	1.50	1.37	1.30
Pesee, yellow and pink	1.40	1.25	1.20	Queen Elizabeth, pink	1.40	1.25	1.20
Sutter's Gold, deep gold	1.25	1.12	1.05	Buccaneer, canary-yellow	1.40	1.25	1.20
Helen Traubel, pink	1.50	1.37	1.30	Tiffany, two-tone pink	1.40	1.25	1.20
Good News, pink	1.25	1.12	1.05	Roundelay, red	1.40	1.25	1.20
Cl. Golden Showers, yellow	1.50	1.37	...	White Knight, white	1.65	...	...

FLORIBUNDA ROSES

Fashion, coral and red	1.10	1.00	.95	World's Fair, red	.75	.65	.60
Goldilocks, yellow	1.00	.87	.80	White Bouquet, white	1.40	...	...
Red Pinocchio, red	1.00	.87	.80	Improved Lafayette, red	.60	.55	.50
Floradora, orange	.60	.55	.50	Jiminy Cricket, orange	1.10	1.00	.95
Pinocchio, pink	1.00	.87	.80	Ma Perkins, shell-pink	1.10	1.00	.95
Dagmar, white	.60	.55	.50	Circus, multicolor	1.40	1.25	1.20
Betty Prior, salmon	.75	.65	.60	Gold Cup, yellow	1.40	...	...
Spartan, orange-red	1.50	1.37	1.30	Fussler, red	1.40	...	...

STANDARD HYBRID TEA ROSES

Prices on roses below:

First-class, 2-yr., No. 1

Per 10 Per 100 Per 1000

\$5.50 \$50.00 \$485.00

All orders of 100 roses at least 10 of a kind may take the 100 rate; 250 or more take the 1000 rate.

PINK VARIETIES

Editor McFarland
Picture
The Doctor
Salmon Radiance

RED VARIETIES

McGredy's Scarlet
Poinsettia
Rouge Mallerin
Crimson Glory
Red Radiance

YELLOW VARIETIES

Golden Dawn
Mrs. P. S. du Pont
Golden Charm
Eclipse

TWO-TONE VARIETIES

Condessa de Sastago
Countess Vandal
Tallman
Signora

WHITE VARIETIES

K. A. Viktoria
F. K. Druschki

CLIMBING ROSES

Blaze, red everblooming
Gold Rush, yellow everblooming
American Beauty, red

Paul's Scarlet, scarlet
New Dawn, pink everblooming

White Dawn, everblooming
Coral Pillar, everblooming

THE KRIDER NURSERIES, INC.

HOME OF GOOD ROSES
PHONE: MIDDLEBURY 81

MIDDLEBURY, IND.

the landscape gardeners' field, it was stated that by appealing to a different type of clientele and doing high-grade work, the experienced and trained nurseryman or landscape contractor will succeed.

Container-Grown Stock

Dr. Chadwick then introduced Kenneth Reisch, O. S. U., who gave a summary of the university's studies of container-grown nursery stock and showed colored slides to illustrate his talk. Container growing is, of course, limited to plants which are easiest to grow and do not require special winter care. Watering is a critical and costly problem, and automatic watering has proved to be cheapest. Other items which must receive more attention for proper

recommendations are fertilization, pruning to produce symmetrical plants, promotion of flower and fruit buds and winter protection.

Some work has been done in rooting hardwood cuttings directly in containers, but this still needs more investigation. Display, advertising and promotion of container-grown nursery stock also are being studied. Many nurserymen prefer to remove the plant from the container in which it has been growing and place it—without disturbing the ball of earth—in a polyethylene bag. This practice keeps the plant moist longer and is clean, but the root system of many plants prevents their being so handled. James Caldwell, extension floriculturist, O. S. U., spoke on foliar analysis of leaves in determin-

ing deficiencies before the plant becomes harmfully affected.

Dr. Chadwick also showed a number of slides of the taxus collection at the Ohio agricultural experiment station at Wooster. The collection was started in 1942 and includes variations of taxus from all sections of the country. The purpose of this planting is to determine the natural habit of growth of these specimens, proper naming of the various species and their rate of growth and adaptability to Ohio conditions. A mimeographed bulletin, entitled "Best of the Taxus from O. S. U." is available on request from the horticultural department of the university.

Dr. R. B. Neiswander, entomologist at the Ohio experiment station,



A block of IMPERIAL Locusts in their second year at The Cole Nursery.

You get **DEPENDABLE SUPPLY** of all the Newest and Best from **COLE NURSERY**



Cole's New **SKYLINE**

(Plant Patent No. 1619)

Distinctive, stately variety with strong trunk and shapely crown. Needs no staking. Heavy, leathery, dark green foliage.

Millions of Trees and Plants. Cole can fill your order, in large or small quantity, from literally millions of trees and plants at our two nurseries. You can be sure of getting good plants, delivered promptly in good condition when you buy from Cole. We will welcome an opportunity to quote on your requirements.

360 Varieties. The new Cole catalog lists 100 varieties of Shade and Ornamental Trees, 86 Evergreens, 162 Deciduous Shrubs and 12 Miscellaneous items in a wide range of sizes to meet your needs.

High Quality. Cole nursery stock is grown under ideal soil conditions in widely spaced rows to promote full development of root, body and top. Modern mechanical methods of root-pruning and digging result in better, more compact, uninjured root systems. Cole trees and plants are healthy and sturdy, transplant more successfully.

Our business is strictly wholesale. We do not compete with retail nurseries. Write today for our latest wholesale catalog of sizes and quantity prices on all varieties.

OHIO'S LARGEST WHOLESALE NURSERY • ESTABLISHED 1881

THE **COLE** NURSERY CO.
PAINESVILLE, OHIO



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You, too, can be first to offer this new Columnar Elm to your discriminating customers. But only if you act now to get in on the limited number of grafted propagations now offered for the first time! Write today for full information and price list to:



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Chicago 15, Ill.

was also present. He stated that the four pests reported most frequently by nursery inspectors in 1957 were spruce mite, common red spider, taxus mealy-bug and bagworm. The prevalence of these pests is due to the fact that their natural enemies have been destroyed, and tests are now being conducted to determine what insecticides will prove most effective in controlling the infestations. The afternoon session adjourned at 4:30, after workshops on production problems had been conducted by Dr. Chadwick and Dr. Neiswander.

In the evening, the annual banquet was held. Members and their wives and business associates were invited, and about 120 persons attended. After dinner, Mr. Horton introduced the speakers who had taken part in the day's program. Dr. Chadwick complimented the nurserymen on the interest shown in their association and on the activities that have taken place this year to commemorate the centennial of the nursery industry in Lake county.

Mr. Horton then introduced the after-dinner speaker, Prof. William Craig, department of speech, College of Wooster, Wooster, O., who presented an interesting and entertaining address on the basic characteristics of humor. The table decorations consisted of pussy willows from Beardslee Nursery, Perry, and snapdragons and greens. Orchids, which had been obtained through Havel's Flowers, Mentor, were given to the ladies.

COLORADO SHORT COURSE

[Continued from page 17]

ter," were L. C. "Jens" Ihrke, Mount Arbor Nursery, Shenandoah, Ia.; Stanley Brown; Kenneth G. Wilmore, and Steve Driftmier, W. W. Wilmore Nurseries, Wheatridge, Colo.

Mr. Ihrke said the nursery industry should educate the public on the value of its products and services. Kenneth Wilmore told the group that the average garden center's traffic is not sufficient to make the offering of lead or below-cost items profitable. Therefore, quality is essential. The service and consultation facilities available in the modern garden shop are not obtainable at the department store.

Stanley Brown said it is important to locate the competition and then provide better service and superior quality. Help must be trained adequately, he said. Service and information are necessary items for the

LINING-OUT EVERGREENS

Available for Spring Delivery

NOTE: Our transplants are all heavy, field-grown, with well-developed roots.
PRICES: 300 or more of an item at 1000 rate, except when order totals 1000 or more evergreens the 1000 rate applies.
O—Seedling T—Once Transplanted TT—Twice Transplanted

		Per 100	Per 1000			Per 100	Per 1000			Per 100	Per 1000
Arborvitae, American				Pine, Austrian				Pine, White			
2000	4 to 6 ins., O	\$ 4.00	\$ 35.00	400	9 to 12 ins., T	\$17.50		6000	4 to 6 ins., O	\$ 4.00	\$ 35.00
2000	6 to 8 ins., O	5.00	45.00	1000	6 to 9 ins., TT	17.50	\$150.00	1000	8 to 10 ins., O	6.00	55.00
700	9 to 12 ins., TT	30.90	275.00	1000	9 to 12 ins., TT	28.00	250.00	Spruce, Black Hills			
1000	12 to 15 ins., TT	35.00	310.00	1500	12 to 18 ins., TT	40.00	350.00	10,000	4 to 6 ins., O	4.50	40.00
1000	24 to 30 ins., TT	65.00	600.00	Pine, Mugho				7000	6 to 8 ins., O	5.50	50.00
Arborvitae, Dark Green American				5000	2 to 4 ins., T	12.00	100.00	5000	8 to 10 ins., O	6.50	60.00
2000	6 to 9 ins., TT	25.00		Pine, Norway				4000	3 to 6 ins., T	11.00	100.00
1000	9 to 12 ins., TT	40.00	350.00	3000	6 to 8 ins., O	5.50	50.00	6000	6 to 9 ins., TT	20.00	180.00
300	12 to 15 ins., TT	50.00		2000	8 to 10 ins., O	6.50	60.00	3000	9 to 12 ins., TT	30.00	280.00
400	15 to 18 ins., TT	60.00		500	6 to 9 ins., TT	17.50	150.00	3000	12 to 15 ins., TT	40.00	
Arborvitae, Globe				400	9 to 12 ins., TT	28.00	250.00	1000	15 to 18 ins., TT	55.00	
2000	3 to 6 ins., TT	25.00	225.00	500	18 to 24 ins., TT	55.00	500.00	Spruce, Colorado			
1000	6 to 9 ins., TT	35.00	310.00	Pine, ponderosa				10,000	4 to 6 ins., O	4.50	40.00
500	12 to 15 ins., TT	45.00		500	3 to 6 ins., T	8.00	70.00	6000	8 to 10 ins., O	6.50	60.00
Arborvitae, Golden				500	6 to 9 ins., T	10.00	90.00	Spruce, Norway			
300	3 to 6 ins., TT	25.00		1000	6 to 9 ins., TT	17.50	150.00	6000	4 to 6 ins., O	4.50	40.00
400	6 to 9 ins., TT	35.00		2000	9 to 12 ins., TT	28.00	250.00	5000	6 to 8 ins., O	5.50	50.00
Juniper, Savin				1500	12 to 18 ins., TT	40.00	350.00	4000	8 to 10 ins., O	6.50	60.00
3000	3 to 6 ins., TT	17.50	150.00	Pine, Scotch				2000	10 to 12 ins., O	8.00	75.00
2000	12 to 15 ins., TT	45.00	400.00	5000	4 to 6 ins., O	4.00	35.00	500	6 to 9 ins., TT	15.00	135.00
1000	15 to 18 ins., TT	65.00		Hopa Crab Apple, seedlings				400	9 to 12 ins., TT	20.00	180.00
Juniper, scopulorum, varieties				30,000	1/4-in. cal. and up	\$5.00	\$48.00	Spruce, White			
1-yr., field-grown, grafts,				50,000	No. 2, 2/16 to			2000	6 to 8 ins., O	5.50	50.00
12 to 18 ins., \$1.00 each.					3/16-in. cal.	3.50	30.00	1000	8 to 10 ins., O	6.50	60.00
300	Juniper, Steel Blue							500	9 to 12 ins., T	15.00	135.00
800	Juniper, Sutherland							1000	9 to 12 ins., TT	20.00	180.00
								1500	12 to 15 ins., TT	30.00	275.00
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customer. Steve Driftmier said, with relation to the modern garden shop, that Americans are in a hurry and the nurseryman must hurry accordingly.

Business Session

At the business session, agreement was reached to send Colorado's 4-H home beautification champion to the national 4-H roundup, which is held at Denver each January. The winner will be picked at the Colorado state fair in August. The excellent work of the Colorado Federation of Garden Clubs was recognized. Suitable awards will be made at the state garden clubs' convention at Greeley, Colo., in September.

Jess L. Fults, head, department of botany, Colorado State University,

started the second day's session with an illustrated talk on weed control in the nursery and in turf. He illustrated various types of weeds and recommended controls.

Technical information on fertilizers was provided in a panel discussion by faculty members of the university and industry representatives. Included were George A. Beach, professor of horticulture, C. S. U.; Doyle W. Kincaid, Kincaid Tree Surgery Co., Fort Collins; William H. Lucking, superintendent, Denver city and county nurseries; Rodney H. Tucker, extension agronomist, C. S. U., and Robert Danielson, assistant professor of agronomy, C. S. U.

The conference ended with tours of the state forest nursery. Charles

Terrell, Colorado state forester and extension forester, was in charge. Glenn Kinghorn, director of the state game and fish nurseries, was host at a tour of his facilities. The group also visited the Colorado State University horticulture farm. Prof. A. M. Binkley was in charge.

Revealed in the programmed discussions and in the general conversation during the event was the fact that nurserymen do not anticipate a recession in 1958. They are confident that consumer purchasing power will be greater and they intend to do everything possible to improve service to customers.

BRUNO LUNIEWSKI is starting a retail nursery and florists' business at 3520 Ridge road, Highland, Ind.

Insect Pest Control For Ornamental Stock

By Clyde C. Hamilton

Department of Entomology, Rutgers University, New Brunswick, N. J.

The nurseryman has enjoyed brisk business since the end of World War II. Housing developments, industrial buildings and highway and park programs have presented a large market for his products. They have also encouraged other growers to enter this field, so that competition in selling plants is keener and it has become increasingly important for the nurseryman to grow plants of better quality without increasing his costs.

Nursery Loss from Insects

It is generally estimated that the average annual loss in nursery plants caused by insects is from 15 to 20 per cent. This loss is not entirely due to the actual killing of plants, but is more likely to be due to the stunting of the plant growth, resulting in plants of inferior quality and frequently making it necessary to grow the plants an additional year before they reach salable size.

I believe that a better knowledge of three phases of entomology can assist the nurseryman in reducing these losses and in making more profits in his business. First, nurserymen should have a better understanding of the damage done by insects, the means of identifying this damage and sources for the necessary information on control. Second, nurserymen should have a better knowledge of the materials used to control insect pests. There are so many different kinds of insecticide materials and so many different brand names of the same kind of insecticide that even an experienced person may easily become confused.

In many cases, any one of a number of different brand-named materials may do a good job. Certain basic knowledge of insecticide materials and the ability to analyze the labels on the containers would help materially. Third, more attention should be given to the methods and thoroughness of application. The best of materials poorly applied will frequently not give so good results as a poorer material thoroughly applied.

How is the nurseryman going to

increase his knowledge of insect damage to his plants? One of the best methods is by brief, intensive short courses in which the student actually handles the injured plant specimens and identifies the insect causing the damage. While he is doing this, he can obtain enough information on the insect's life history and habits to use the best control measures.

It is not necessary for the nurseryman to keep all this knowledge in his head, however. It is more important that he know where and how to find it when it is needed, and the sources for this information can also be given in short courses. These courses, I believe, should be limited to a concentrated study of one or

two specific subjects, with additional subjects being studied in later courses.

Let me give some examples. In the late 1940's and early 1950's, Rutgers University, New Brunswick, N. J., was giving a number of short courses to flower growers, nurserymen, landscape men and shade tree operators. These courses covered the entire field and were repeated from year to year. The students consisted of new people and many men who had attended earlier courses. The classes met six hours a day for an entire week or for six hours once a week for eight or 10 successive weeks. The latter seemed to be the better method, since it did not interfere so seriously with the work of those attending the course.

In an effort to provide more advanced work for those who had previously attended short courses, I suggested that the subject matter of the course be limited to fewer topics and more time be given to each subject. In the winter of 1950, an advanced course for nurserymen and shade tree operators was set up. Twenty-five to 30 per cent of the

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18 to 24 ins.....	\$3.00	3 1/2 to 4 ft.....	\$4.50
24 to 30 ins.....	3.75	4 to 5 ft.....	5.50
30 to 36 ins.....	4.50	Juniper, virginiana burki	
Juniper, hetzi glauca		3 1/2 to 4 ft.....	4.50
15 to 18 ins.....	2.25	4 to 5 ft.....	5.50
18 to 24 ins.....	2.75	Juniper, virginiana	
24 to 30 ins.....	3.50	3 1/2 to 4 ft.....	3.00
30 to 36 ins.....	4.25	4 to 5 ft.....	4.00
3 to 4 ft., very heavy.....	5.00	Cornus florida rubra (Pink-flowering)	
Juniper, pfitzeriana compacta		3 to 3 1/2 ft.....	3.00
15 to 18 ins.....	2.50	3 1/2 to 4 ft.....	4.00
18 to 24 ins.....	3.00	4 to 5 ft.....	5.00
24 to 30 ins.....	3.75	5 to 6 ft.....	6.00
Juniper, chinensis pfitzeriana		Cornus florida (White Dogwood)	
24 to 30 ins.....	3.25	4 to 5 ft.....	4.00
		5 to 6 ft.....	5.00
		Euonymus flex and others.....	

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400 9 to 12 ins.....	4.50	40.00	2000 9 to 12 ins.....	3.50	30.00
1000 Barberry, Green, 9 to 12 ins.....	8.00	75.00	1000 12 to 18 ins.....	4.50	40.00
1000 12 to 18 ins.....	11.00	100.00	200 Purple Fringe, 4 to 6 ins.....	5.00	.....
180 Bladdernut, 6 to 9 ins.....	10.00	.....	440 6 to 9 ins.....	6.50	60.00
170 9 to 12 ins.....	12.50	.....	750 9 to 12 ins.....	8.00	75.00
1000 Bush Cherry, 6 to 12 ins.....	4.00	35.00	400 12 to 18 ins.....	11.00	100.00
1000 12 to 18 ins.....	5.00	45.00	500 Rhus canadensis, 9 to 12 ins.....	6.50	60.00
2500 18 to 24 ins.....	8.00	75.00	1200 12 to 18 ins.....	9.00	80.00
3000 2 to 3 ft.....	11.00	90.00	900 18 to 24 ins.....	11.00	100.00
300 Cornus amomum, 12 to 18 ins.....	7.00	65.00	SHRUB (layers or side shoots)		
300 18 to 24 ins.....	8.50	80.00	2000 Lilac, purple.....	8.00	75.00
700 2 to 3 ft.....	9.50	90.00	1500 Lilac, Charles X, red.....	15.00	125.00
650 Cotoneaster acutifolia, 4 to 6 ins....	4.00	35.00	1000 Lilac, Mme. C. Perier, white.....	15.00	125.00
600 6 to 9 ins.....	5.50	50.00	1000 Lilac, W. Rosseau, pink.....	15.00	125.00
1000 9 to 12 ins.....	7.00	65.00	2000 Snowberry, white.....	6.50	60.00
1000 12 to 18 ins.....	9.00	85.00	3000 Spiraea Anthony Waterer.....	8.00	75.00
4500 Cydonia japonica, 6 to 9 ins.....	5.50	50.00	1000 Spiraea billiardi.....	7.00	65.00
3000 9 to 12 ins.....	7.00	65.00	500 Spiraea bumalda superba.....	7.00	65.00
2000 12 to 18 ins.....	9.50	90.00	2000 Spiraea froebeli.....	8.00	75.00
580 Lilac, villosa, 4 to 6 ins.....	5.00	45.00	2000 Spiraea vanhouttei.....	8.00	75.00
570 6 to 9 ins.....	6.50	60.00	1000 Snowball.....	10.00	90.00
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total time for each day's work was devoted to insect studies. The work was planned for a combined lecture and laboratory study of two hours' duration. There were, I believe, 10 laboratory periods on successive weeks.

The study was divided as follows: One period was given to an explanation of how insects injure plants and how to identify the insect causing the damage. Plant specimens showing different types of insects, in mounts, were available. A comparison was made of the types of injury caused by spider mites, thrips, lace bugs and leaf hoppers and how these types of injury could be identified by reference to available books, bulletins and other publications.

Six periods were then given to the

identification of insect injury. Injured plant specimens were contained in mounts, which were labeled with only the names of the plants. The student identified the insect injury from the host plant. The three last periods were given to a study of insecticide materials and spraying methods. At the end of the course, each student was given a manual of about 100 pages covering the identification, description and control methods of the insects studied in the course. The course was planned so that there was little writing and description work involved.

In 1950 and 1951 the course was repeated twice in North Jersey, once for a group of 30 nurserymen and once for a group of 30 shade tree men. More than 300 of the labora-

tory manuals were printed and used in this course and in subsequent work.

One of the most important pests of nursery plants is the group known generally as spider mites. There are many kinds and they attack and injure many different kinds of plants. Their injury is usually of the same general pattern and it is not too difficult to recognize. Spider mites are small, usually less than 1/50 of an inch long, are rounded to oval, have four pairs of legs in the adult stage and are usually some shade of red, dark brown, black, yellow or green. Their eggs are usually round or oval, not more than 1/100 of an inch in diameter.

They may occur on both the lower and the upper surface of leaves,



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usually more abundantly on the lower surface where they suck the plant juices out of the leaves. The green coloring material, chlorophyll, is destroyed, and a fine stippling appears on the upper surface of the leaves. This stippling is at first a grayish green color and may later turn a dusty or dirty brownish green. It is easily recognized as a symptom of spider mite injury by an experienced person. Most of the injurious species pass the winter in the egg stage; 2-spotted spider mites, some of the most common, however, pass the winter as mature females.

Spider Mite Control

Control of spider mites may be accomplished during the dormant period or during the growing stage. I am convinced that the best control is to spray with a superior-type dormant oil spray at 2 to 5 per cent strength or with a concentrated lime-sulphur spray diluted at the rate of one part to eight parts of water. The spray is best applied at the delayed dormant stage, just before new growth begins to develop.

I am convinced that better control can be obtained with dormant sprays of oil and lime-sulphur than with summer sprays. In addition, the former will not kill beneficial parasites or predators. These will then hold the population of spider mites from increasing during the spring and summer. If dormant sprays have not been used and if control is necessary during the growing season, several of the special spider mite sprays are satisfactory. Spray materials such as aramite, Dimite, ovex and Chlorobenzilate, used as directed on the containers, give good results in most instances and are safe on most plants.

Scale insects should not constitute much of a problem in nursery plantings, providing the stock plants from which the cuttings are taken are free from infestation and providing any unsold nursery plants remaining in the plantings are sprayed or destroyed. Scale insects can normally be controlled by delayed dormant applications of superior-type spray oil applied at a 2 to 5 per cent strength immediately before new growth begins to develop in the spring. On some plants that are susceptible to oil spray injury, a dormant lime-sulphur spray should be used.

If the dormant spray has not been applied, a considerable degree of control can be obtained by summer applications of a malathion spray applied shortly after the eggs have hatched. A 50 per cent malathion

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emulsion, diluted at the rate of one and one half to two quarts to 100 gallons of water, should be applied in early June for some species, or early July for other species. It is best to check with one's state entomologist or with someone who knows the life history of the species before applying summer sprays.

Lace Bugs

Lace bugs constitute a third group of sucking insects frequently found damaging nursery-grown plants. They are flattened insects with brown or black bodies not more than $\frac{1}{8}$ of an inch long. They have transparent or slightly colored lacelike wings lying flat on the body. They suck out the plant juices, destroying the green chlorophyll, and give the upper surfaces of the leaves a speckled or stippled appearance. When feeding, they excrete large amounts of black liquid, which dries as brown or black spots on the lower surface of the leaves.

The young and adults of most species of lace bugs are easily killed with many of the common summer contact sprays. The eggs, which are either laid on the plant tissues or on the lower surface of the leaves, are difficult to kill. Residual-type sprays, such as DDT, which will kill many

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young insects hatching from eggs, are not effective against the young lace bugs hatching from eggs after the spray has been applied. Therefore, for most species of lace bugs, it is necessary to make two spray applications, the second about two weeks after the first one.

In some experimental spraying during the summer of 1956, complete control of the pyracantha lace bug and the azalea lace bug was obtained with one spray application of three

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of the new systemic insecticides. These were Systox, Thimet and Sytam. This work will be discussed later.

The control of insects that mine or tunnel in the leaves of plants presents an interesting problem. Some knowledge of the life history of the insect and its habits is essential for application of the control measures at the proper time to obtain the best results. In the case of many leaf-mining insects, the best

STRICTLY FOR THE BIRDS or I AM A BIRD WATCHER

For the past week I have been sitting in my office watching the birds strip the berries from the Hollies in our display garden. Yes, I am a bird watcher. I can't say that I love 'em, but I sure do watch 'em. I realize that the little devils have to eat; after all, it is below zero outside, there is about a foot of snow on the ground; and I know that those big bright red shiny berries must look awful good (they aren't though, because I got curious and tried one), but why don't they go some place else and eat their Holly berries?

Of course, when I come to think of it, maybe other places don't have as many berries as we do, 'cause we've got some real heavy bearers. On second thought, if they do have berries, maybe they aren't as big or as pretty, or as shiny, or as red. I know we've got some pretty nice things, and maybe that is why they stop here every year.

YOU TOO CAN BE A BIRD WATCHER

Would you like some Holly so you could sit in your office and cuss the robbers, too? At least, if you got our Holly and it was cold outside, you wouldn't have to worry about whether they would live or not 'cause you know they would. At least, you would have berries for the birds to eat, berries that would help sell your plants.

Send for our list that is fresh off the press, and even though our Holly is "for the birds," we have other items of both liners and finished stock in Roses, Rhododendrons and Azaleas.

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control can be obtained when the adults are emerging from the leaf or from the ground to lay their eggs.

For example, boxwood leaf miners pass the winter as larvae in the leaves of the plant. They grow in the spring, pupate in the leaves and emerge as adults some time in May, depending upon the growing conditions. These insects are small reddish-orange flies, about the size of large mosquitoes. They emerge, mate, lay eggs and, most of them, die within 24 to 48 hours. Therefore, if control measures are not effective at the time they emerge from the leaves, heavy egg laying may occur within one or two days.

Two quarts of a 25 per cent DDT emulsion or two pounds of a 50 per cent DDT wettable powder to 100 gallons of water will give good control if applied in time and if the spray cover is kept on the plants. The DDT insecticide kills the flies as they emerge from the leaf mines and also as they rest on the sprayed foliage or as they attempt to lay eggs in the new leaves. The exact time for applying the first spray can be determined by breaking open some of the blisterlike mines on the lower surface of the boxwood leaves and noting the time at which the orange-colored pupae begin to turn black. It is then time to spray.

Holly Leaf Miner

The holly leaf miner is another insect that can be controlled with DDT or some similar insecticide at the time the adults are emerging. The adults emerge about the middle of May or when the first new growth is four to six inches long and has four to six new leaves. The adults, however, do not begin to lay eggs until 10 days or two weeks after they have emerged. Meanwhile, the adults feed by sucking up the plant juices coming out of punctures made by the female in young leaves. These punctures extend entirely through the leaves and remain as the leaves grow and enlarge, sometimes causing distortion. Eggs are laid in the leaf tissues by the female.

Sprays of DDT applied at the beginning of adult fly emergence will give good control of the holly leaf miner. Some growers have obtained good control with two sprays of lindane applied 10 days to two weeks apart. In heavy infestations the sprays should be applied before much feeding occurs, or there may be considerable damage from distortion of the new growth caused by the feeding punctures. Systemic insecticides also offer a method of controlling holly leaf miners in the early larval

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Spiraea arguta, 3 to 4 ft.	.50
Spiraea vanhouttei, 3 to 4 ft.	.40
Syringa microphylla, 2 to 3 ft.	.65
Syringa vulgaris, 2 to 3 ft.	.50
Viburnum lantana, 2 to 4 ft.	.55
Viburnum prunifolium, 3 to 4 ft.	.50
Viburnum sieboldi, 2 to 3 ft.	.50

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Hamamelis vernalis, 4 to 6 ins., S.	.08½
6 to 9 ins., S.	.10
Koeleruteria paniculata, 12 to 18 ins., 2-yr., S.	.16
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Prunus subhirtella pendula, 12 to 18 ins., S.	.12½
18 to 24 ins., S.	.17½
Rhodotypos kerrioides, 10 to 15 ins., S.	.08½
Spiraea Anthony Waterer, 4 to 6 ins., T.	.10
Spiraea coccinea, 4 to 6 ins., T.	.10
Viburnum caries, 4 to 6 ins., S.	.12½
6 to 9 ins., S.	.18
9 to 12 ins., S.	.22½
Viburnum opulus sterile, 2-in. pots	.12½
Viburnum wrightii, 12 to 15 ins., S.	.10
15 to 18 ins., S., T.	.15

EVERGREENS

Taxus capitata, 3-yr., S., T., 6 to 9 ins.	.25
9 to 12 ins.	.30

stage if they are not controlled when the adults are present and feeding.

Lindane for Birch Miner

The European birch leaf miner is a small black hymenopterous insect about $\frac{1}{16}$ to $\frac{1}{8}$ of an inch long. It passes the winter in the soil in a small pupal cell. Adults emerge about the middle of May and lay their eggs in the young developing leaves. These eggs hatch within a week to 10 days into small larvae, which make small blotchlike mines. DDT insecticides applied to the foliage at the time the adults are laying their eggs are not effective.

Good control can be obtained by spraying with lindane insecticides just after the eggs have hatched. The lindane spray acts as a systemic insecticide but is retained in the sprayed leaves for only a few days. Therefore, larvae hatching from eggs a few days after the spray application or eggs laid after the spray application are not killed. Two spray treatments may be necessary, the

first about May 10 to 15 and the second 10 days later. Limited tests with some of the newer systemic insecticides indicate they will be more effective than the lindane insecticides.

The control of the leaf-eating insects would seem to present a fairly simple problem. There are several stomach poison insecticides which may be used. DDT and several other similar materials, such as methoxychlor, DDD, Dieldrin and endrin, are still some of the best insecticides. All of these have good toxicity to insects but they are all also destructive to beneficial insects, such as parasites and predators. The spraying for nursery insects, however, is not usually done on a definite program as it is for orchard or vegetable pests; therefore, the use of DDT does not develop so serious a threat to natural control measures. In some instances, arsenate of lead can be used for control of leaf-eating insects.

Systemic insecticides, mentioned

several times in this discussion, are chemicals that, when taken up by plants and translocated throughout the plant system, will kill insects as they feed upon the treated plants. Systemic insecticides may be applied to the foliage, bark or trunk of the plant; to the soil or roots, or to the seeds. A good systemic insecticide should be translocated from one part to all other parts of the plant; it should be present in sufficient quantities to kill insects; it should be sufficiently stable to give protection for a reasonable period of time, and it should not be toxic to plants and warm-blooded animals. Some of these requirements have already been obtained in systemic insecticides, others are still to be developed.

Most of the presently available systemic insecticides contain phosphate and, like parathion, are highly toxic to insects but must be used carefully because of their toxicity to warm-blooded animals. Labels for limited use have been approved by the federal government for four dif-

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ferent kinds of systemic insecticides. These are Sytam, Systox, Thimet and phosdrin. For food crops they can be used only on the plants mentioned on the labels and under certain specific conditions. Since they are taken up by plant tissues and are toxic to insects, they might also constitute a health hazard to people or animals eating the treated plants.

The use of systemic insecticides on ornamental plants does not involve a food hazard to the people applying them or working with the plants after they are treated, but the directions for use should be carefully followed. I believe systemic insecticides can be safely and profitably used by the nurseryman and the greenhouse grower but still constitute too much of a health hazard to the shade tree man and the homeowner.

I used several of the systemics in pest control work that I did last summer. The materials used and their concentrations were as follows: Thimet — 90 per cent emulsion, one pint to 100 gallons of water; Systox — 23 per cent emulsion, one and one-half and three pints to 100 gallons of water; Sytam — 42 per cent emulsion, two pints to 100 gallons of water, and Isotox 200 — 20 per cent emulsion, 2 pints to 100 gallons of water.

Spray Results

The sprays were applied at pressures of 150 to 250 pounds. Blocks of 50 to 75 plants of Ilex glabra, two and one-half to three feet tall and of approximately equal width, infested with the holly leaf miner, Phytomyza ilicis, were sprayed July 10 with Thimet, Systox, Sytam, and Isotox 200. Larvae were still hatching at this time, and the largest larval mines were not more than one quarter of an inch long. Leaves collected and examined July 20, 10 days after spraying, showed the following kill: Thimet, 100 per cent; Systox, one and one-half pints to 100 gallons of water, 98 per cent; Systox, three pints to 100 gallons of water, 100 per cent; Sytam, 100 per cent, and Isotox 200, 83 per cent.

It appeared that the Isotox 200 killed all the larvae which had hatched at the time of the spraying. The live larvae present at the time of making the counts were quite small. The larval mines were not more than 1/4 of an inch long, and it was quite evident that the larvae had hatched after the spray had been applied. The residual toxicity of lindane (Isotox 200) is known to be short lived and will not kill larvae hatching several days after the insecticide has been applied. The Isotox 200

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block of plants and the check plants were sprayed with Thimet July 27. The infestation on these plants was cleaned up, and the plants were certified free of insect infestation by the nursery inspector.

At the time the *Ilex glabra* plants were sprayed for the holly leaf miner, arborvitae and juniper plants infested with the 2-spotted spider mite were sprayed with Thimet, Systox, and Sytam. The spider mite infestation was somewhat spotty. On July 13, three days after spraying, and July 30, 20 days after spraying, representative twigs from the sprayed plants were carefully examined in the laboratory with a binocular microscope. No live mites or live eggs were found on any of the plants sprayed with any of the three materials.

The insecticides apparently gave good immediate contact kill, as was indicated by the dead mites stuck on the sprayed twigs. It would also appear that some systemic action was obtained, since no reinfestation developed within 20 days, nor did any appear in later occasional examinations. The check plants were moderately infested with all stages of the 2-spotted spider mite at each date of examination.

Effective on Varied Stock

The State School for the Deaf at Trenton, N. J., has rather extensive shrubbery plantings around its buildings. The following plants were infested: Boxwood, with the boxwood leaf miner; azaleas, with azalea lace bug and southern red mite; pyracantha, with the pyracantha lace bug, *Carythuca Cydoniae*; *Pieris japonica*, with the andromeda lace bug, and juniper and arborvitae, with 2-spotted spider mites. The buildings were divided into three different groups, and the infested shrubbery in each group was sprayed August 2, using 250 pounds' pressure. The sprays used were Thimet, Systox and Sytam.

Examination Shows Results

An examination August 23, three weeks after spraying, showed a complete kill of all spider mites and insects on the sprayed plants. The pyracantha plants before spraying had been heavily infested with eggs, nymphs and adults of the pyracantha lace bug. No live stages of any kind could be found after spraying. This was one of the few times I have obtained a good kill of lace bugs with a single spray. The eggs apparently hatched normally, but the young were killed by the systemic action of the insecticides. Box-

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Scotch Pine, Auvergne, race Noble (So-called French blue)			
(2-0), 3 to 6 ins.....	7.50	26.00	24.00
* Austrian Pine			
(2-0), 3 to 6 ins.....	6.00	24.00	22.00
* Douglas Fir, caesia, green to gray			
(2-0), 4 to 8 ins.....	6.00	28.00	26.00
* Douglas Fir, taxifolia glauca, green to blue			
(2-0), 4 to 8 ins.....	6.00	28.00	26.00
Colorado Blue Spruce			
* (3-0), 4 to 8 ins.....	9.00	45.00	42.50
(3-0), 2 to 4 ins.....	6.00	26.00	24.00
Black Hills Spruce			
* (3-0), 4 to 8 ins.....	8.00	40.00	37.50
(3-0), 2 to 4 ins.....	6.00	25.00	23.00
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* (3-0), 5 to 10 ins.....	8.00	45.00	40.00
(3-0), 3 to 5 ins.....	6.00	25.00	23.00
Norway Spruce			
(3-0), 5 to 10 ins.....	8.00	45.00	40.00
(3-0), 3 to 5 ins.....	6.00	25.00	23.00
Mugho Pine, Montana			
4 to 6 ins., X.....	25.00	150.00
Mugho Pine, Tyrolean			
(2-0).....	5.00	30.00
Ponderosa Pine			
(2-0), 2 to 5 ins.....	5.00	22.00
Norway Pine			
(2-0), 2 to 4 ins.....	5.00	20.00
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24 to 30-in. spread, B&B.	3.50	3.25
30 to 36-in. spread, B&B.	4.00	3.75
Magnolia soulangeana , early pink-flowering.		
3 to 3 ft., br., with buds, B&B.	3.50	3.25
3 to 4 ft., br., with buds, B&B.	4.00	3.75
Magnolia niger , red-flowering		
2 to 3 ft., br., with buds, B&B.	3.50	3.25
3 to 4 ft., br., with buds, B&B.	4.00	3.75
Taxus cuspidata (Spreading Japanese Yew)		
12 to 15-in. spread, B&B.	3.50	3.25
15 to 18-in. spread, B&B.	4.00	3.75
18 to 24-in. spread, B&B.	4.50	4.25
Quercus cerris (Turkey Oak), well-br.		
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JUNIPERUS PFTZERIANA		
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2-yr., 2 1/4-in. pots	.35	.28
4-yr., XX, 6 to 9 ins., beds	.50	.40
4-yr., XX, 9 to 12 ins., beds	.65	.55
TAXUS CUSPIDATA		
2-yr., flats	.30	.22
2-yr., 2 1/4-in. pots	.35	.28
TAXUS HICKSI		
2-yr., flats	.30	.22
ARBORVITAE, DARK GREEN		
2-yr., 2 1/4-in. pots	.35	.28
4-yr., XX, 9 to 12 ins., beds	.50	.40
4-yr., XX, 12 to 15 ins., beds	.60	.50
ARBORVITAE, PYRAMIDAL		
2-yr., flats	.30	.22
ARBORVITAE, WOODWARD GLOBE		
2-yr., 2 1/4-in. pots	.35	.28
4-yr., XX, 6 to 9 ins., beds	.50	.40
4-yr., XX, 9 to 12 ins., beds	.60	.50

SS at 100 rate; \$50 or more at 1000 rate.
Northern-grown and good quality.
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wood leaf miner eggs were just hatching at the time of spraying. The larvae were somewhat slow in being killed, but the infestation was eliminated.

Seven American holly trees, *Ilex opaca*, infested with larvae of the European holly leaf miner, *Phytomyza ilicis*, were sprayed August 23 with a 45 per cent Thimet emulsion diluted at the rate of two pints to 100 gallons of water. Larval mines were from 1/8 to 3/8 of an inch long at the time of the August spraying. Infested leaves were collected and examined September 11 and again October 10. At both dates there was an average reduction in the live larvae of 83.8 per cent. Tests by other investigators have shown excellent kill of the birch leaf miner by systemic insecticides. There is a much wider range of time during which systemic insecticides can be applied and still be effective.

No plant injury occurred on any of the plants sprayed with systemics at any time. In general, systemic insecticides of the phosphate type have fairly good plant tolerance and can be used at concentrations considerably stronger than those tested. Systemic insecticides appear to have a definite place in the spraying program of the nurseryman, but more work must be done before explicit recommendations for their use can be made. They range in the class of parathion with respect to their hazard to the operator, but if directions are followed carefully, no undue hazard should be present.

Thorough Application Important

The third phase of entomology that nurserymen could profitably study concerns spray applications. A good insecticide poorly applied will give poorer control than a mediocre insecticide well applied. Thoroughness of application is essential in insect control. Spraying is work—hard work, and frequently I can't blame the operator for doing poor spraying, particularly if he is working with equipment that is inferior or unsuited to the job. An adequately equipped spray operator will do a better job of controlling insects. I have devoted some of my efforts to working out better methods of applying insecticides, particularly with mist blowers. I am a firm believer in the use of concentrated sprays and mist blowers, when conditions are suitable for their use.

I have used most of the common insecticides and miticides in mist blowers in field spraying of nursery plants, shade trees and shrubs at

NORTHERN - GROWN STOCK 3-Yr. Seedlings

	Per 100	Per 1000
Colorado Blue Spruce		
6 to 8 ins.	\$ 5.00	\$ 45.00
4 to 6 ins.	4.50	40.00
White Spruce		
6 to 10 ins.	4.50	40.00
4 to 6 ins.	4.00	35.00
Norway Spruce		
8 to 10 ins.	4.50	40.00
4 to 6 ins.	4.00	35.00
American Arborvitae		
4 to 6 ins.	4.00	35.00
Austrian Pine		
8 to 10 ins.	5.00	45.00
6 to 8 ins.	4.50	35.00
Ponderosa Pine		
8 to 10 ins.	3.50	30.00
Douglas Fir		
6 to 10 ins.	5.00	45.00
4 to 6 ins.	4.00	35.00
Balsam Fir		
4 to 8 ins.	4.00	35.00
Mugho Pine, Dwarf Tyrolean , sheared, 4 ins.	5.00	45.00
Scotch Pine		
8 to 10 ins.	4.00	35.00

2-Yr. Seedlings

	Per 100	Per 1000
Colorado Blue Spruce		
2 to 4 ins.	3.00	25.00
Mugho Pine, Dwarf Tyrolean		
1 1/4 to 2 ins.	3.00	25.00
Scotch Pine, Riga		
2 to 4 ins.	2.50	20.00
Ponderosa Pine		
2 to 4 ins.	2.50	20.00
Austrian Pine		
2 to 4 ins.	3.00	25.00
Norway Spruce		
2 to 4 ins.	3.00	25.00
American Arborvitae		
2 to 4 ins.	3.00	20.00
Douglas Fir, Snowy Mountain		
2 to 4 ins.	3.00	25.00

Transplants

	Per 100	Per 1000
American Arborvitae, 5-yr.		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
6 to 10 ins.	12.00	80.00

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15 to 18 ins.	\$1.75	
18 to 24 ins.	2.50	

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concentrations ranging from that used in high-pressure hydraulic sprays to concentrations 10 to 15 times greater than those used in high-pressure sprayers. The control was as good as or better than could have been gained with hydraulic sprayers. Much less time was consumed and usually an appreciably lower quantity of spray material.

In 1953, 18 acres of full-grown azaleas, 2 and 3 years old, were sprayed with the mist blower for control of the azalea leaf miner. Ten gallons of concentrated benzene hexachloride emulsion was diluted with 400 gallons of water and applied in six hours' actual spraying time. An average of 23 gallons of diluted spray was applied per acre in an average time of 20 minutes per acre. During the past three summers, Lovett's Nursery, Inc., Little Silver, N. J., has used protective sprays for the control of red mites on its azaleas. It uses five gallons of concentrated lime-sulphur solution and one and one-half to two pints of 40 per cent nicotine sulphite in 120 gallons of water. It repeats the spray application every two to three weeks throughout the summer and early fall. Application takes about 15 gallons of spray per acre and not more than 15 minutes' spraying time per acre. The results have been excellent, and the plants have been of high quality.

KANSAS LANDSCAPE GROUP

The association of Kansas Landscape Architects, composed of professional landscape architects and landscape nurserymen in the state, met February 16 at the new Student Union building on the campus of Kansas State College, Manhattan. Beginning the second year of their 2-year terms as officers of the association were Raymond Buskirk, Prairie Gardens, Inc., McPherson, president; Miles George, Wichita, vice-president, and Lloyd Copenhafer, Topeka, secretary-treasurer.

The guest speaker of the evening, Al Sandifer, of the newly created Kansas state park authority, discussed the state's pilot project for a state park at Kanopolis reservoir, 30 miles west of Salina. President Buskirk announced that the authority had expressed its thanks to the members of the association for their help in obtaining funds for this project.

A series of color slides taken on his recent European tour was then shown by L. R. Quinlan, professor of landscape design at Kansas State College. At the subsequent business

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Specimen *Juniperus keteleeri*,

3 to 3½ ft. and 3½ to 4 ft.

Specimen *Taxus hicksi*,

15 to 18 ins. and 18 to 24 ins.

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1½, 1¾ and 2-in. cal. and other sizes.

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110 Acer, nursery-grown, B&B or B.R.,
2 to 2½ ins.

200 Juniper, *pfitzeriana*, 24 to 30 ins.

100 Juniper, *canaertii*, 3½ ft.

75 Washington Hawthorn, 8 to 10 ft.

25 Washington Hawthorn, 10 to 12 ft.

500 Sycamore, 7 to 8 ft., heavy
branched

500 Soft Maple, 7 to 8 ft., heavy
branched

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Rooted cuttings \$18.00 \$150.00
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Gem	\$1.10	\$1.85	\$3.25	\$6.25
Superfection	1.10	1.85	3.25	6.25
Streamliner	1.25	1.85	3.25	6.25
20th Century	1.25	2.00	4.00	8.50
Red Rich	2.50	4.55	8.50 (12 for \$1.50)	

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	1.00	1.40	2.20	4.50
Dunlap	1.00	1.40	2.20	4.75
Premier	1.00	1.40	2.20	4.75
Sparkle	1.00	1.40	2.20	4.75
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Armore	1.00	1.40	2.20	4.75
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meeting it was announced that Governor George Docking was to sign an Arbor day proclamation March 7, designating March 21 at Kansas Arbor day. It was also announced that the next meeting of the A. K. L. A. will be held in June, at Topeka.

The rest of the evening was spent in discussing the status of the department of landscape design at Kansas State College. R. B. R.

BIRMINGHAM PILGRIMAGE

Speakers at the Birmingham Nurserymen's Association meeting held February 11 at Birmingham, Ala., were Mrs. John Strange and Mrs. Young, of the Shades Valley council, Federated Garden Clubs, who spoke on the garden pilgrimage that was to be held by the clubs March 1 and 2 at Birmingham. Proceeds from the sale of tickets to the pilgrimage were to go into a fund for a garden center building proposed by the Federated Garden Clubs at Birmingham. This building would be available for meetings of nurserymen and horticultural clubs.

The members of the B. N. A. voted to cooperate in the project by offering a \$100 gift certificate, a \$50 certificate and two \$25 certificates for nursery stock or supplies as prizes during the pilgrimage. The full amount of each certificate was to be redeemed at one time at any member nursery. The nurserymen were asked to contribute toward defraying this expense, with any deficit to be made up from the association treasury.

It was also decided to station two nurserymen at each of the four homes and two business establishments included in the pilgrimage to give information about the plants and to answer questions. Plants were to be identified and tagged by the association members. It was announced that the Shades Valley Sun, an area newspaper, had agreed to publicize the pilgrimage and to feature a special garden section at the time the event was held, offering reduced advertising rates to nurserymen.

Earlean R. McLendon, President

PLANS RETIREMENT

Rutger B. Porter, owner-operator of the Desert Garden Nursery, Tucson, Ariz., recently announced plans to close the retail nursery and retire from business. Moving to Tucson in 1927, soon after receiving a degree in agriculture from Rutgers University, New Brunswick, N. J., Mr. Porter landscaped the grounds of the

Tucson his first executive in the a

The started moved East Sp Club ro retail b lease hi desert a and is n in Tucso to homi native s testing grow un

TEXA

The formerl Fred A. has bee Nursery moved has bee on Ver lath w

The ment an as thos lath ma shading will be offered 50 feet natural

GAT mitville owners. Grams, drich, now be Aldrich Platte's past se pertain Keokul by Mr.

CORKSCREW TREE

(*Salix Matsudana Tortuosa*)

Horticultural Curiosity

from Hupeh Province of East Central China

Potted Liners for Late Spring Delivery

\$25.00 per 100

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Perry, O.



Tucson Medical Center as one of his first jobs and later designed and executed plantings for many homes in the area.

The Desert Garden Nursery was started at his home in 1931 and was moved to its present location at East Speedway and North Country Club road in 1936. After closing the retail business, Mr. Porter plans to lease his property, which was open desert at the time it was purchased and is now one of the busiest corners in Tucson. He will devote his time to home experiments in adapting native shrubs to landscape use and testing the ability of new species to grow under Tucson conditions.

TEXAS LATH UNIT LEASED

The lath manufacturing unit formerly owned and operated by Fred A. McKenzie at Avinger, Tex., has been leased by the Verhalen Nursery Co., Scottsville, Tex., and moved to Scottsville. The business has been set up in a new building on Verhalen property, and the first laths were run off February 7.

The machinery and other equipment and materials used are the same as those used to manufacture the lath marketed as Southland nursery shading, with which the new product will be identical. The lath will be offered in 4-foot widths and in rolls 50 feet long and will be available in natural or green color.

GATE CITY NURSERY, Summitville, Ia., was sold recently by its owners, Mr. and Mrs. Harry G. Grams, to Mr. and Mrs. Howard Aldrich, Waterloo, Ia. The firm will now be called Aldrich's Nursery. Mr. Aldrich has been associated with Platte's Nursery, Waterloo, for the past several years. The sale does not pertain to the Gate City Seed Co., Keokuk, Ia., which is still operated by Mr. and Mrs. Grams.

BIG APPLE: 2-yr., heavy, branched

5 to 6 ft., 11/16-in. cal.....65c each

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	Per 100	Per 1000
Rooted cuttings	\$ 5.00	\$ 45.00
2 1/4-in. pots	15.00	135.00

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Rooted cuttings	5.00	45.00
2 1/4-in. pots	15.00	135.00

GILSON GARDENS, Perry, O.

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PLANT NOTES HERE AND THERE

By C. W. Wood

Eccremocarpus Scaber

I am afraid I can give a Nebraska correspondent little information regarding *Eccremocarpus scaber*, a South American member of the bigonia family, as I have had scant experience with it. It can be said, though, that the woody climber is not hardy in the north, though it will bloom the first year from seeds and may, therefore, be used as an annual. Where hardy, it is said to make a woody growth to about 10 feet, climbing on supports by means of tendrils, producing its showy, orange-yellow tubular flowers from June until frost, as many as 30 in each terminal raceme.

As I used it in northern Michigan — as an annual — it seemed not particular as to soil, but grew best in sun. It could, no doubt, be used as an annual in any part of Nebraska, its growth habits being unique, its culture easy and the flower color pleasing and showy. Incidentally, there are other colors mentioned in the literature, including yellow, carmine and scarlet.

Thalictrum Sulphureum

I am sure that the Pennsylvania reader who asks about *Thalictrum sulphureum* will find it a prize possession in his search for summer-blooming material. It played a prominent part in my planting work in an area where summer effects were the main object, always to the delight of my clients, I was told. Why it is not more often seen is not easy to understand, for it has the delightful meadow rue foliage — foliage that is so useful in relieving the heavy effects of much composite foliage — and the pronounced airy effect of the family's type of inflorescence. I am sure that our correspondent and others who are looking for a tall, graceful plant with a July and August blooming period will find it useful.

Thalictrum sulphureum is often given in the literature as a "listed name," and that probably means that it is a hybrid, a mutation or something of that sort. In fact I seem to remember (though I do not find corroboration in my notes) that it is a hybrid which appeared in the workshop of the famous French plant-breeder, Lemoine.

In any event, the plant is a splen-

did addition to our all-too-short list of summer-flowering perennials, first for its pretty meadow rue foliage and then for its immense panicles of sulphur-yellow flowers, on stems to five feet in height. Of course, it attains this height only in a rich soil, preferably one containing much leaf-mold and old rotted manure, if the latter is available, with water when needed. It did well for me in sun or part shade — plants that were beyond the reach of the hose growing best in the latter — and in protected spots where strong winds could not spoil the foliage. I always grew it from divisions in early spring.

Corydalis Cashmeriana

A New Jersey correspondent inquired recently about the fumitory, *Corydalis cashmeriana*. The plant is unfamiliar to me, and I do not find it mentioned in any of the available literature. However, I find the following in my notes, apparently from an English friend: "*Corydalis cash-*

meriana," he wrote, "is a little charmer, getting six inches or more in height, as it grew in pots in this garden, with the pretty, pinnately cut leaves of the genus. It is a profuse bloomer in spring, usually repeating later and sometimes twice.

The flowers, quite large for the size of the plant, open greenish, quickly changing to a lovely shade of blue — turquoise, I believe it would be called. I gave it the usual alpine-house soil, made up mostly of a sandy soil and leafmold, and I suspect it would be equally at home in the open, where hardy. Its hardiness is questionable, even in England, but of that I cannot say, for I have kept it in pots." I should appreciate a note from anyone who has or finds seeds of the plant.

Pyteuma Lobelioides

I can assure a Missouri correspondent that the campanula cousin known to botanists as *Phyteuma lobelioides* would be worth his atten-

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SPECIAL SALE OF PINK DOGWOOD



(*Cornus florida rubra*)

Specimen plants, 3 years old, individually root-wrapped in waterproof paper to seal in moisture, burlapped on the outside for protection. Packed in sphagnum moss. These trees will caliper an inch and up with 90 per cent bloom buds. Approximate weight, 25 lbs., as long as they last. These trees are the following prices:

4 to 5 ft., B&B or individually root-wrapped.....	\$2.50
5 to 6 ft., B&B or individually root-wrapped.....	3.00
6 to 7 ft., B&B or individually root-wrapped.....	4.00
7 to 8 ft., individually root-wrapped.....	5.00

ALSO

CHEROKEE CHIEF DOGWOOD

	(Bare-root)	Each	Each	Each
		1 to 9	10 to 29	30 to 100
3 to 4 ft., 2-yr.....		\$4.00	\$3.85	\$3.50
4 to 5 ft.....		5.25	4.95	4.50

CRIMSON DALE NURSERY

Winchester, Tenn.

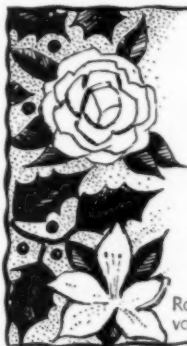
Phone: WO 7-2531

tion, especially if he has customers with a desire for the unusual. It has many qualities that would endear it to such gardeners, particularly those who are at the same time, too busy to care for the many unusual items which are temperamental. One of the charms that was made manifest in my trial was its ability to come through dry weather without irreparable damage. It might disappear in a long, hot, dry spell, and one would think it had succumbed; but its dock-like root usually retained enough life to start it off again the following spring.

And that start would culminate in long, lithe, graceful wands to 18 inches in height ("Hortus" says two feet), which were adorned with deep lavender stars during June and part of July. It did well here in northern Michigan in my ordinary light sandy garden soil, preferably with leafmold added, and was easily grown from seeds, sown in spring and handled after the manner of other small-seeded perennials, and from divisions as the plants started into growth.

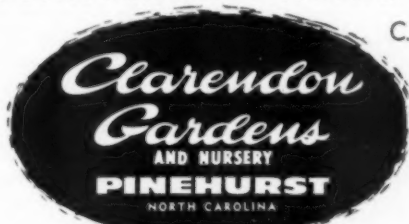
Aster Tataricus

Answering a Minnesota reader, I am happy to say that *Aster tataricus*, a native of Siberia, by the way, should be entirely hardy in that state. And in addition to hardiness, it has



WHEN YOU THINK OF HOLLY . . . THINK OF

C. G. Q.*



Rooted Cuttings — Liners — All Sizes. We are propagating over 300 varieties. Azaleas — Camellias — Broad-leaved Evergreens.

other desirable traits that recommend it to gardeners, not only in cold sections but wherever stately plants are wanted.

A well-grown plant will reach seven feet in height, making it a spectacular sight when it is displaying, in October and November, a bountiful crop of pretty, violet-blue flowers an inch or more across. That makes it among the latest asters to bloom, which is in itself a good recommendation, though that blooming might cause early severe weather to curtail its showy period. When not in bloom, it may be told by its entire, lanceolate, hairy leaves, the basal ones being 18 inches to two feet in length. It needs a fertile soil to reach maximum size, and it is spectacular only

when well grown. Seeds come readily from a fall sowing, and the plant may be divided.

Artemisia Mutellina

A Massachusetts nurseryman says that he can get seeds of *Artemisia mutellina* from a European friend and wonders if it would be worth growing in a community of ardent rock garden enthusiasts.

The trouble with alpine wormwoods in general, I should say, is that they are short-lived when brought down to lowland gardens. The subject of this inquiry, from the high Alps in Europe, is one of the better kinds that have made a pretense of permanence in my trials. Two or three others may be blessed

SHADE AND FLOWERING TREES

Birch, European White	Per 10	Per 100
5 to 6 ft.	\$15.00	
6 to 8 ft.	20.00	
8 to 10 ft.	30.00	
10 to 12 ft.	40.00	
Birch, Cut-leaved Weeping		
5 to 6 ft.	20.00	
6 to 8 ft.	25.00	\$235.00
8 to 10 ft.	35.00	325.00
10 to 12 ft.	45.00	425.00
Cherry, Kwansan Flowering		
4 to 5 ft.	29.00	
5 to 6 ft.	40.00	
Dogwood, Pink		
2 to 3 ft., B&B	27.50	
3 to 4 ft., B&B	37.50	
4 to 5 ft., B&B	50.00	
Elm, Chinese		
6 to 8 ft.	12.50	110.00
8 to 10 ft.	17.50	150.00
10 to 12 ft.		
1 1/4 to 1 1/2-in. cal.	22.50	200.00
1 1/2 to 2-in. cal.	30.00	275.00
2 to 2 1/2-in. cal.	45.00	425.00
2 1/2 to 3-in. cal.	65.00	600.00
Flowering Peach (Red, Pink, White)		
3 to 4 ft.	8.00	70.00
4 to 5 ft.	11.00	95.00
5 to 7 ft.	13.50	120.00
Locust, Honey Thornless		
5 to 6 ft.	15.00	125.00
6 to 8 ft.	20.00	175.00
8 to 10 ft.	30.00	
10 to 12 ft.	42.50	
1 1/2 to 2-in. cal.	57.50	
Maple, Norway		
6 to 8 ft.	30.00	275.00
8 to 10 ft.		
1 1/4 to 1 1/2-in. cal.	55.00	475.00
1 1/2 to 2-in. cal.	75.00	700.00
2 to 2 1/2-in. cal.	120.00	
Maple, Schwedler		
6 to 8 ft.	37.50	
8 to 10 ft.		
1 1/4 to 1 1/2-in. cal.	62.50	
10 to 12 ft.		
1 1/2 to 2-in. cal.	85.00	
Maple, Silver		
6 to 8 ft.	12.50	110.00
8 to 10 ft.	20.00	175.00
10 to 12 ft.		
1 1/2 to 2-in. cal.	37.50	350.00
Maple, Sugar		
5 to 6 ft.	27.50	
6 to 8 ft.	35.00	
8 to 10 ft., 1 to 1 1/4-in. cal.	45.00	
1 1/4 to 1 1/2-in. cal.	60.00	
Oak, Pin		
8 to 10 ft.		
1 1/4 to 1 1/2-in. cal.	57.50	500.00
Oak, Live		
3 to 4 ft., B&B	40.00	
Poplar, Lombardy		
6 to 8 ft.	6.50	60.00
8 to 10 ft.	9.00	85.00
Willow, Weeping		
(Babylonica and Thurlow)		
5 to 6 ft.	12.50	110.00
6 to 8 ft.	17.50	160.00
8 to 10 ft.	22.50	

Ask for quotations on other sizes and varieties in trees, also shrubs, evergreens, fruit trees, berry plants and nut trees.

New Wholesale Price List on request.

WAYNESBORO NURSERIES
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Beautiful shade, productive too! Prolific varieties. Sizes 1 1/2 to 12 feet. In attractive packages or bare roots. Get stock list and prices.

PECAN TREES



ARP Nursery Co.

Box 3338-J, Tyler, Texas

AARS winners and 130 other popular varieties. In attractive, colorful packages or bare roots.

with better foliage, but none that comes to mind at the moment is more permanent or more easily grown. Like most mountain wormwoods, its greatest value is found in its beautiful foliage, long slender leaves, slashed and slashed again into silver threads, making a lovely picture hanging from a crevice in the wall or lying prostrate on a gravel bed.

I suspect that it would be difficult to grow it at all in heavy soil, because it suffered badly in my light sand during spring freezings and thawings. The best location I found for it was in a crevice, either in a south wall or in a steep incline in the rock garden, where it was planted in gravel, with a generous sprinkling of leaf-mold. It may be grown from seeds until stock is established, if care is taken with watering during the early stages of growth. It is propagated best from soft cuttings, if available.

Oenothera Serrulata

A western New York reader writes that he is trying to locate an evening primrose that is truly perennial, hardy and not straggling. He has *Oenothera missouriensis* and has done so well with it that he wants to stock another. I suggest *O. serrulata*, with the further suggestion that he look long enough to get foundation stock from the northern part of the plant's range to insure hardiness and the clone which produces large flowers.

The plant covers a wide range on the plains from Texas and New Mexico into Canada, so its hardiness would be variable, as would its height (10 inches to two feet) and flower size (less than an inch across to two inches), in its different habitats. Regardless of the size of plant and flower, its silky, lemon-yellow flowers, from June through most of August (I sometimes had a sprinkling of color from it in September, too) make it an excellent garden plant.

Anyone who has had discouraging experiences with winterkilling of shrubby evening primroses will be pleasantly surprised by the behavior of this one, provided he gets it from the northern half of its range. It comes readily from seeds and is easily grown in almost any sunny, well-drained spot. Although cuttings were never successful in my trials, I have heard that a fair percentage of new growths taken in August and treated with a root-promoting substance can be rooted successfully.

Chrysanthemum List

Because of the multiplicity of chrysanthemums now in the trade

BROAD-LEAVED EVERGREENS

Choice landscape material at attractive prices.

<i>Buxus sempervirens</i> , 12 to 16 ins. to 2 to 2 1/2 ft.
<i>Elaeagnus fruticulosa</i> , 1 1/2 to 2 ft. to 4 to 5 ft.
<i>Eucynymus kiautschowicus</i> , 1 1/2 to 2 ft. to 4 to 5 ft.
<i>Ilex cassine</i> , 3 to 4 ft. to 5 to 6 ft.
<i>Ilex convexa (bullata)</i> , 12 to 16 ins. to 18 to 24 ins.
<i>Ilex rotundifolia</i> , 15 to 18 ins. to 2 to 2 1/2 ft.
<i>Ilex opaca howardii</i> , 2 to 3 ft. to 4 to 5 ft.
<i>Ilex vomitoria</i> , 2 to 3 ft.
<i>Jasminum floridum</i> , 1 1/2 to 2 ft. to 3 to 4 ft.
<i>Ligustrum japonicum</i> , 2 to 3 ft. to 4 to 5 ft.
<i>Ligustrum lucidum</i> , 1 1/2 to 2 ft. to 2 1/2 to 3 ft.
<i>Ligustrum lucidum repandens</i> , 1 1/2 to 2 ft. to 2 1/2 to 3 ft.
<i>Mahonia japonica bealei</i> , 12 to 18 ins. to 2 to 2 1/2 ft.
<i>Nandina domestica</i> , 15 to 18 ins. to 2 to 2 1/2 ft.
<i>Osmanthus fortunei</i> , 1 1/2 to 2 ft. to 2 to 2 1/2 ft.
<i>Osmanthus ilicifolius</i> , 1 1/2 to 2 ft. to 2 to 2 1/2 ft.

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- VINES •
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Abelia grandiflora, 12 to 14 ins., gal.
Biota bakeri, 28 to 30 ins., B&B
Gardenia, 12 to 14 ins., gal.; 20 to 24 ins., B&B
Ilex cornuta femina, 10 to 12 ins., qt.
Ilex cornuta burfordi, 14 to 16 ins., gal.; 10 to 12 ins., qt.
Ilex crenata bullata, 10 to 12 ins., qt.
Ilex crenata rotundifolia, 12 to 14 ins., qt.
Ilex opaca Hume, 24 to 26 ins., gal.; 30 to 36 ins., B&B
Ilex glabra (Inkberry), 16 to 20 ins., gal.
Ilex vomitoria (Yaupon), 14 to 16 ins., gal.; 14 to 16 ins., B&B
Juniperus excelsa stricta, 12 to 14 ins., B&B *
Juniperus chinensis pfizeriana compacta, 12 to 14 ins., B&B *
Juniperus pfizeriana nana, 12 to 14 ins., B&B *
Laurel, Cherry, 24 to 36 ins., B&B
Ligustrum lucidum compactum, 34 to 38 ins., gal.; 36 to 38 ins., B&B
Magnolia grandiflora, 12 to 14 ins., gal.; 12 to 14 ins., qt.; 4 to 6 ft., B&B
Mahonia bealei, 12 to 14 ins., gal.
Nandina, 12 to 14 ins., qt.
Photinia glabra, 12 to 14 ins., gal.
Photinia serrulata, 20 to 22 ins., B&B
Pyracantha formosana, 10 to 12 ins., gal.; 2 to 3 ft., B&B

*These plants have been well-pruned for 2 years and will make good specimens for sale.

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PFITZER LINERS

Pfitzer Juniper, 2-yr.,
field-grown,
\$250.00 per 1000

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and the large number being introduced, the neighborhood nurseryman finds himself in a quandary when it comes to selecting the kinds for his operation. As a result, many growers either ignore the plant entirely or continue to propagate the old kinds that have been superseded by later and better ones. I cannot hope that the following popularity report will answer all these problems, but it may help some growers to select sales-winning leaders for their 1958 line.

It is based on the records kept by Terrace View Gardens, a fine Indiana nursery, where modern methods of growing and merchandising are combined in a successful local and mail-order business. The nursery displays over 200 modern kinds of chrysanthemums, I believe — a far wider selection than most neighborhood growers would care to have. In a recent letter, Mr. Longden, reporting on 225 varieties entered in the popularity contest last fall, gave the top five and their votes as follows: Stylish, with 79 votes; Lipstick, 74; Purple Waters, 63; Fred Stone, 57, and Judy, 41. Incidentally, Purple Waters headed the list in 1956; so it must have a considerable appeal.

These five chrysanthemums may be briefly described as follows: Stylish is a heavy producer of 3-inch, cactus-style flowers of bright vermilion with a silver sheen, which slowly ages into deep rose with a raspberry flush (I hope that is an accurate description of lovely shades that are hard to depict in words). It blooms in late September, on a compact bush of medium (about 20 inches) height. Lipstick's bright crimson can be seen a mile away, yet it is also attractive at close range. It makes a compact mound of a little less than two feet, blooming the last week in September.

Purple Waters is something to make the eyes of every lover of purple sparkle with delight. It is a deep purple and nothing else, carrying no overtones of magenta, red or dirty blue. It grows to two feet and commences to open its 3-inch flowers in mid-September. According to the results of this contest, red must be the most popular chrysanthemum color among amateurs. Three of the top five are reds, including Fred Stone, of dark red hue. These large flowers (extra-large when disbudded) are produced on 30-inch plants, commencing about October 1, which is a little too late for year-after-year successful blooming this far north.

I have not seen the fifth place winner, Judy; so I must depend upon

SPRING SPECIALS

FLOWERING SHRUBS

	Per 100	Per 1000
<i>Aesculus pavia</i> (Flowering Horse Chestnut)		
6 to 9 ins.	\$ 7.50	\$ 60.00
9 to 12 ins.	9.00	75.00
<i>Abelia grandiflora</i> (Glossy Abelia)		
18 to 24 ins., 2-yr., C.	6.00	50.00
<i>Althaea amplissimus</i> , double red		
18 to 24 ins., 2-yr., C.	6.00	50.00
<i>Spiraea foebell</i>		
12 to 18 ins., 2-yr., C.	12.00	100.00
2 to 3 ft., T., heavy	30.00	...
<i>Spiraea vanhouttei</i>		
2 to 3 ft., 2-yr., C.	15.00	...

TREES

	(50c each extra for B&B)	Each
<i>Cornus florida</i> (White-Flowering Dogwood)		
3 to 4 ft., well-br., B.R.	\$1.00	
4 to 5 ft., well-br., B.R.	1.50	
<i>Cornus florida rubra</i> (Pink Dogwood)		
12 to 18 ins., lightly br., B.R.	.50	
18 to 24 ins., lightly br., B.R.	.75	
2 to 3 ft., lightly br., B.R.	1.00	
3 to 4 ft., well-br., B.R.	1.50	
<i>Cercis canadensis</i> (Redbud)		
2 to 3 ft., S.	\$ 4.00	\$ 35.00
3 to 4 ft., S.	6.00	50.00
<i>Acer saccharinum</i> (Silver Maple)		
2 to 3 ft., S.	3.00	25.00
3 to 4 ft., S.	4.00	35.00
4 to 5 ft., S.	6.00	50.00
<i>Albizia julibrissin</i> (Mimosa)		
2 to 3 ft., S.	4.50	40.00
3 to 4 ft., S.	7.50	60.00
4 to 5 ft., S., selected		
whips	20.00	175.00
5 to 6 ft., selected		
whips	35.00	300.00
<i>Platanus occidentalis</i> (Sycamore)		
4 to 5 ft., br.	30.00	...
5 to 6 ft., br.	50.00	...

HEDGE PLANTS

	Per 100	Per 1000
<i>Ligustrum amurense</i> (Hardy Amur River Privet)		
<i>Ligustrum ibolium</i> (Hardy California Hybrid Privet)		
<i>Ligustrum ovalifolium</i> (California Privet)		
6 to 12 ins., liners	\$ 2.00	\$ 15.00
12 to 18 ins., 2 canes	3.00	25.00
12 to 18 ins., 3 canes	4.00	35.00
18 to 24 ins., 2 canes	3.50	30.00
18 to 24 ins., 3 canes		
and up	5.00	45.00
2 to 3 ft., 3 canes		
and up	7.50	65.00
3 to 4 ft., 4 canes		
and up	15.00	120.00
<i>Ligustrum sinense</i> (Evergreen South Privet), row run		
4 to 12 ins., S.	5.00	
12 to 18 ins., S.	10.00	
18 to 24 ins., S.	15.00	
18 to 24 ins., S.	20.00	
12 to 18 ins., bushy, S.	30.00	
2 to 3 ft., S.	40.00	
12 to 18 ins., T.	3.50	30.00
18 to 24 ins., T.	5.00	45.00
2 to 3 ft., T.	7.50	65.00
3 to 4 ft., T.	11.00	90.00

EXTRA SPECIALS

	Per 10	Per 100
<i>Buxus sempervirens</i> (True Boxwood)		
6 to 9 ins., 2-yr., from beds	\$ 2.00	\$ 15.00
9 to 12 ins., 2-yr., from beds	2.50	20.00
12 to 15 ins., heavy, B&B	15.00	125.00
15 to 18 ins., heavy, B&B	25.00	200.00
18 to 24 ins., heavy, B&B	35.00	300.00
<i>Rhododendron maximum</i> (Rosebay Rhododendron)		
2-yr., bed-grown, 9 to 12 ins.	\$25.00	...
2-yr., bed-grown, 12 to 15 ins.	35.00	...
<i>Chrysanthemums, Cushion Mums</i>		
Strong rooted slips ready for delivery April 1.	3.00	\$ 25.00
Colors: Red, yellow, bronze, lavender and rust.		

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	Each	Each
Pfizer Juniper	per 10	per 100
15 to 18 ins., B&B ..	\$1.75	\$1.50
18 to 24 ins., B&B ..	2.25	2.00
24 to 30 ins., B&B ..	2.75	2.50
30 to 36 ins., B&B ..	3.00	2.75

Ilex Burfordi		
15 to 18 ins., B&B ..	1.75	1.50
18 to 24 ins., B&B ..	2.50	2.00
24 to 30 ins., B&B ..	2.75	2.50

Ilex Rotundifolia		
15 to 18 ins., B&B ..	1.75	1.50
18 to 24 ins., B&B ..	2.25	2.00
24 to 30 ins., B&B ..	2.75	2.50

Berberis mentorensis		
15 to 18 ins., B.R. ..	.45	.40
18 to 24 ins., B.R. ..	.55	.50
24 to 30 ins., B.R. ..	.65	.60

Pink-Flowering Dogwood		
With bloom buds		
3 to 4 ft., B&B	2.75	2.50
4 to 5 ft., B&B	4.25	4.00
5 to 6 ft., B&B	5.50	5.00

Ligustrum lucidum macrophyllum		
2 to 3 ft., B&B	1.75	1.50
3 to 3½ ft., B&B	2.25	2.00

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catalog descriptions for this report. It is described as a pompon, growing to about 20 inches, commencing to open its ball-shaped flowers in late September. The flowers open white, changing to lavender with a white center with age.

Anemone quinquefolia

A Pennsylvania reader asks for advice in growing the native windflower, *Anemone quinquefolia*. I think I can put my finger on his trouble. It was long considered one of the finicky kinds, being difficult to establish in the garden. Now that it is known to require an acid soil, it usually presents no problem at all when it is given shade and a moist, acid soil, such as that taken from under pine and hemlock trees.

That bit of care should reward a gardener with one of the joys of the spring garden — pretty, little, white windflowers dancing in the April and May breezes. *Anemone quinquefolia* may be grown from fresh seeds planted in autumn; it is also said to grow well from root cuttings, the sticklike roots being sliced in July and replanted immediately in a shaded frame of acid soil.

FLORIDA FREEZE REPORTS

[Continued from page 18]

damage, escaped with a great deal less actual damage and little complete loss."

Northeast Losses

George L. Tabor, Jr., Glen Saint Mary, Fla., wholesaler, has confined his remarks to northeastern Florida, being more familiar with the conditions in that area. He stated that he is quite sure that many of the smaller can nurseries in central Florida, excluding Miami and the Palm Beach area, were much harder hit than were growers in the northeastern section, principally because they carried mostly tender and semihardy material.

Mr. Tabor has the following to report:

"The freeze of December 13 and 14 was the most damaging of the winter to date, with the thermometer sliding to 16 degrees the first night and to 26 degrees on the 14th. Although this area has since been visited with several more subfreezing nights, there has been, I believe, little additional damage to hardy nursery stock.

"A large amount of tender material was killed or rendered temporarily unsalable in our part of the state by that first frigid onslaught, but nursery sales of deciduous fruit

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trees, shade trees and broad leaved and coniferous evergreens have not been curtailed too much.

"Estimating roughly, I should say that northeastern Florida will have to struggle along without 25 per cent of the expected salable stock for the season, counting tender plants, citrus and miscellaneous other products. Some plants of this 25 per cent will eventually recover and become usable again, but I fear the proportion will be depressingly small. Of course, the picture varies in aspect, depending upon the location of the nursery, amount of cold protection provided and the type of stock predominantly grown in each; also upon the temperament of the 'artist' doing the 'painting.'

"The weatherman states that it has been 59 years since Florida suffered through a winter approaching the present one in severity.

"From our own experience here at Glen Saint Mary, we know that the nursery industry in Florida has absorbed and survived some hard blows during its fight from puny amateurism to the lusty professional status it now enjoys. It accepts each new adversary's challenge and, unless I miss my guess, will come back swinging from the floor after this last sneaky punch."

Reporting from central Florida, Gervin W. Pringle, Florida Nursery & Landscape Co., Leesburg, landscape and wholesale nurseryman, states the following:

"It is impossible to give a very clear picture of the freeze damage in Florida as we are now in the midst of our fifth freeze of the winter.

"It is my opinion that there is probably a permanent kill on 35 to 45 per cent of the stock and considerable damage to another 25 to 35 per cent. In view of our being in the midst of a cold period at this writing (February 17), these figures can scarcely be considered accurate and final.

"In my 53 years in Florida I had not experienced a winter like this one, and I am trusting that the next 53 years will not bring another one like it."

PROPAGATING DOGWOOD

[Continued from page 11]

cuttings were rooted by the 5,000 ppm indolebutyric acid treatments, the roots were present in numbers of 5 to 9 and were an inch or less in length. The few cuttings rooted in the check plots had roots one-fourth of an inch long or less.

The cuttings illustrated were rooted with the 20,000 ppm indole-

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GOOD LINERS from GULF STREAM

	Per 100	Per 1000
<i>Calycanthus floridus</i> , 1-yr., 15 to 18 ins.....	\$12.50	\$100.00
<i>Clematis paniculata</i> , 2-yr., T.....	30.00	250.00
<i>Ilex verticillata</i> , 1-yr., 6 to 8 ins.....	7.50	60.00
<i>Tilia cordata</i> , 1-yr., 15 to 18 ins.....	18.00	150.00
<i>Viburnum americanum</i> , 1-yr., 8 to 10 ins.....	9.00	80.00
<i>Viburnum dentatum</i> , 1-yr., 8 to 10 ins.....	9.00	80.00
<i>Viburnum dilatatum</i> , 1-yr., 15 to 18 ins.....	12.00	100.00
<i>Viburnum opulus</i> , 1-yr., 10 to 12 ins.....	10.00	90.00
<i>Viburnum setigerum</i> , 1-yr., 8 to 10 ins.....	18.00	150.00

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6 to 15 ins.....	100.00
9 to 15 ins.....	120.00

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Single—Double—Multiple—Stemmed (Collected)

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5 to 6 ft., \$3.00; 7 to 8 ft., \$5.50;
8 to 9 ft., \$4.00; 9 to 12 ft., \$8.50.

Prices F.O.B. Pineola, N. C.

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CUPRESSIFOLIA, 5 ft., 6 ft., 7 ft.

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COLUMNARIS, 4 ft., 5 ft., 6 ft., 7 ft.

DUNDEE, 4 ft., 5 ft., 6 ft.

KETELEERI, 4 ft., 5 ft., 6 ft.

4 ft., \$3.00; 5 ft., \$4.00; 6 ft., \$5.00; 7 ft., \$6.00.

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Iron Mountain, Mich.

butyric acid solutions. Note that there was no evidence of callusing present before the roots made an appearance. In just two or three days the basal portion of the cuttings was transformed from normal appearing wood, with no roots, to rooted basal portions as illustrated.

It was difficult to find a suitable source for cuttings of *Cornus florida* rubra for this test. For that reason, cuttings from this variety were tested only during the months of April, May and June. The responses of the cuttings to the various treatments was similar to that of the *Cornus florida* cuttings (table 2). None of the check plants rooted. The cuttings taken in April required 57 days for rooting. Those treated with 10,000 ppm indolebutyric acid rooted 66 per cent and those treated with the 20,000 ppm indolebutyric acid dip rooted 90 per cent. Of the cuttings taken in May, 4 per cent of those which received the 5,000 ppm dip rooted, 78 per cent of those treated with the 10,000 ppm dip rooted and 100 per cent rooted when treated with the 20,000 ppm indolebutyric acid solutions. Cuttings made in June did not respond with so great percentages of root development; however, roots were stimulated at rates of 6 per cent, 64 per cent and 96 per cent for the 5,000 ppm, the 10,000 ppm and the 20,000 ppm indolebutyric acid dips, respectively.

Table 2. The rooting response of *Cornus florida* rubra to indolebutyric acid as expressed by the number of days required for rooting (50 cuttings per treatment).

Treatment	Date Made	Days to root	Per cent rooted
Check	Apr. 10	—	0
5 mg/ml		—	0
10 mg/ml		57	66
20 mg/ml		57	90
Check	May 14	—	0
5 mg/ml		48	4
10 mg/ml		48	78
20 mg/ml		48	100
Check	June 8	—	0
5 mg/ml		42	6
10 mg/ml		42	64
20 mg/ml		42	96

GRUB-PROOFED LAWNS

Lawns treated in spring for grub control are protected for five or more years. Japanese beetles, Asiatic garden beetles and white grubs are all killed by a single treatment, according to Dr. Robert E. Treece, extension entomologist at Rutgers University, New Brunswick, N. J. Besides, there will be fewer ants and other pests.

Insecticides can be mixed with fertilizer and applied with a fertilizer spreader to get even coverage, he

BOOKS ON CHRYSANTHEMUMS

Complete Book of Chrysanthemums, by Cornelius Ackerson. Details on temperature, soils, fertilizers, insects, planting and other basic cultural matters. Greenhouse and commercial growing are included. 256 p., illus. (1957)...\$4.95

Commercial Chrysanthemum Culture, by J. E. Curwood (English). Stage-by-stage growing of chrysanthemums and equipment required. Pests and diseases, marketing blooms and raising new varieties. 151 p., illus. (1955)....\$3.00

Greenhouse and Garden Chrysanthemums, by D. C. Kiplinger. Classification, natural flowering and out-of-season flowering mums, potted plants, cloth houses, pest control and garden chrysanthemums. 120 p. Revised. (1954) \$3.00

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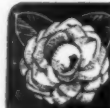
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suggests. For this purpose a dieldrin dust or granulated mixture is best.

Use four and one-half pounds of 1½ per cent dust to 1,000 square feet of lawn. If you buy a 1 per cent formulation, use seven pounds. The lawn should be watered after treatment to carry the insecticide into the soil.

Dieldrin can also be applied as a spray, but it is difficult to spray a lawn evenly. Use six ounces of 18-per cent dieldrin emulsifiable concentrate or five ounces of 25 per cent dieldrin wettable powder to 1,000 square feet. Dilute the dieldrin in sufficient water to apply it evenly.

LITTLE-CHERRY SYMPTOMS

Leaf symptoms of little-cherry virus on sweet cherries as a result of infection from clones of Kwanzan and Shiro-fugen oriental flowering cherry trees are described in the Plant Disease Reporter, volume 40, No. 5, by E. L. Reeves and Philip W. Cheney, respectively pathologist and biological aid, horticultural crops research branch, agricultural research service, United States Department of Agriculture, Wenatchee, Wash. The foliage observations, made in late summer and fall of 1955, supplementing earlier notes on fruit symptoms, follow:

During the growing season of 1955 foliage on infected trees appeared normal until early September. At that time the older leaves began to develop what appeared to be early autumnal yellow and bronze coloration. As the season progressed these leaves developed more red, and Bing, Van and Burbank leaves became reddish-bronzed. Also, as the season progressed, coloration of leaves advanced from the base of shoots toward the growing points, until by late October only the terminals of affected Bing trees were comparable to those of uninoculated (check) trees.

On affected Bing trees the first difference in coloration appears as a bronzing of the interveinal tissue on the upper surface of older leaves, the areas along the veins and basal portion of the leaves remaining mostly green. As the season progresses, the bronzing becomes a brighter red and the green areas along the veins turn yellow. Thus, by mid-October the upper surface of the leaf presents a streaked red and yellow appearance. By this time some red coloration will show also in the interveinal areas on the lower leaf surface. By late October nearly all the leaves on an affected tree are bronzed, and there is

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Platanus occidentalis (American Plane Tree)	1.50	2.00	3.50	6.00
Quercus phellos (Willow Oak)	2.50	3.50	5.50	7.50
Ulmus americana (American Elm)	1.50	2.00	3.00	4.50



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Inspectors and growers are inspecting these crops to make sure that what you'll get to sell to your customers in the fall will be of top quality—that no disease or harm will come to the bulb—that you and your customers will be guaranteed healthy bulbs to give full true blossoming beauty in the spring.

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considerably more red pigmentation in leaves that changed color first.

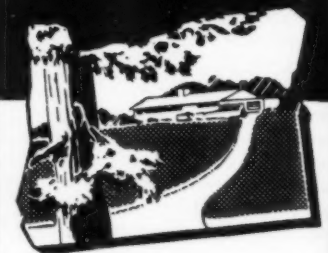
During the late summer and fall of 1955, leaf symptoms were observed on 244 infected sweet cherry trees in the experimental plots at Wenatchee, Wash. These consisted of 135 Bing trees 1 to 5 years old, 86 Bing budlings all propagated from known infected trees, and 23 experimentally infected trees (2 to 8 years old) of Lambert, Van, Napoleon, Burbank, Black Tartarian, Seneca, Spaulding, Ebony and Chapman. Some of the varieties on which symptoms were observed in 1955 showed less color development than occurred on Bing, whereas others showed considerably more red color.

Lambert developed the least coloration. By late October, diseased Lambert trees had foliage coloration somewhat comparable to that expressed by infected Bing trees in mid-September. The undersurface of Lambert leaves showed practically no change in color prior to the time of normal autumnal coloration. Infected trees of the Van variety developed more reddening of the foliage than did Bing; some leaves were nearly scarlet with little or no green. The undersurface of Van leaves developed some yellow along the veins and pink to red in the interveinal areas. Some varieties developed less variation in foliage color than Bing; Chapman had more brownish color in the interveinal areas of the upper leaf surfaces; Black Tartarian developed more yellow than Bing, particularly along the veins, and Burbank showed more general red coloration.

Foliage symptoms on sweet cherry appear to be a definite feature of the little-cherry type virus obtained from Kwanzan and Shiro-fugen flowering cherries and may prove to be a quick and valuable diagnostic tool. It should be pointed out that the symptoms described were observed during 1955 only; however, in September the 221 infected Bing trees could easily be distinguished by the colored leaves from the uninoculated check Bing trees and from other sweet cherry trees in the experimental plots. It is recognized that adverse growing conditions, weather and other factors cause coloration in leaves of sweet cherry, but in this case only the trees known to have the virus were visibly affected.

Relatively moderate temperatures with no frost during October, 1955, probably favored the development of the foliage symptoms. During seasons when colder weather occurs earlier in October, it is possible that

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no great difference would be apparent on the other varieties mentioned during September and into October, until frost occurs.

Three of the five infected Van cherry trees involved were inoculated the last week of July, 1955, and showed considerably more red coloration of the foliage than Bing. Since only two and a half months elapsed between the time of inoculation and a definite reddening of the foliage, the Van variety gives promise of being a quick diagnostic host.

Bing cherry trees affected with Western-x virus and showing characteristic fruit symptoms showed none of the leaf colorations described for Bing trees affected with the little-cherry type virus obtained from flowering cherries. Colored foliation thus serves to differentiate the two diseases, which might be confused on the basis of fruit symptoms.

SMALL FRUIT DISCOVERY

Significant improvement of domestic strawberry and blackberry varieties may result from breeding experiments now being conducted with large-fruited varieties recently collected in South America, according to the United States Department of Agriculture. The strawberry plants found in Chile by G. M. Darrow, U. S. D. A. horticulturist who made the collection, are forms of *Fragaria chiloensis*. Though this species is an ancestor of strawberries now cultivated in the United States, the newly collected varieties are expected to possess features not found in plants used for earlier breeding work. Bred into commercial varieties, the large size of the berries (nearly one and three-quarters inches long) would cut harvesting cost, and it is hoped that domestic strains will gain drought resistance and greater hardiness from the Chilean plants, which grow under widely varying and adverse conditions. Disease resistance and firmness of fruit, which would reduce damage in shipment and storage, are other qualities which it is hoped these plants will communicate to domestic varieties.

The giant blackberries, some of which measure more than two and one-quarter inches in length, are borne on forms of *Rubus gachaten-sis*, *R. macrocarpus* and *R. roseus* collected by Mr. Darrow in Colombia and Ecuador. The plants are valuable for drought resistance, good quality and color of fruit and a habit of bearing up to 42 buds, flowers and fruits in one cluster. Previous attempts to cross equato-

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<h3>RED RASPBERRIES</h3> <table border="0"> <tr> <th></th> <th>Per 100</th> <th>Per 1000</th> </tr> <tr> <td>Latham</td> <td></td> <td></td> </tr> <tr> <td>T.</td> <td>\$10.00</td> <td>\$ 80.00</td> </tr> <tr> <td>1-yr., No. 1</td> <td>8.00</td> <td>65.00</td> </tr> <tr> <td>Indian Summer,</td> <td></td> <td></td> </tr> <tr> <td>Durham</td> <td></td> <td></td> </tr> <tr> <td>T.</td> <td>10.50</td> <td>85.00</td> </tr> <tr> <td>1-yr., No. 1</td> <td>8.50</td> <td>70.00</td> </tr> </table> <h3>BLACK RASPBERRIES</h3> <table border="0"> <tr> <td>Cumberland, Logan,</td> <td></td> <td></td> </tr> <tr> <td>Morrison, Bristol</td> <td></td> <td></td> </tr> <tr> <td>No. 1, tips</td> <td>6.00</td> <td>45.00</td> </tr> <tr> <td>Blackhawk</td> <td></td> <td></td> </tr> <tr> <td>No. 1, tips</td> <td>15.00</td> <td>100.00</td> </tr> </table> <h3>GRAPEVINES</h3> <table border="0"> <tr> <td>Concord</td> <td></td> <td></td> </tr> <tr> <td>2-yr., No. 1</td> <td>15.00</td> <td>100.00</td> </tr> <tr> <td>Niagara, Catawba,</td> <td></td> <td></td> </tr> <tr> <td>Fredonia</td> <td></td> <td></td> </tr> <tr> <td>2-yr., No. 1</td> <td>16.00</td> <td>120.00</td> </tr> <tr> <td>Seneca, Golden</td> <td></td> <td></td> </tr> <tr> <td>Muscat</td> <td></td> <td></td> </tr> <tr> <td>2-yr., No. 1</td> <td>25.00</td> <td>.....</td> </tr> </table> <h3>ASPARAGUS</h3> <table border="0"> <tr> <td>Mary Washington</td> <td></td> <td></td> </tr> <tr> <td>3-yr., heavy</td> <td>\$4.50</td> <td>\$30.00</td> </tr> <tr> <td>2-yr., No. 1</td> <td>3.00</td> <td>20.00</td> </tr> <tr> <td>1-yr., No. 1</td> <td>2.00</td> <td>14.00</td> </tr> </table>		Per 100	Per 1000	Latham			T.	\$10.00	\$ 80.00	1-yr., No. 1	8.00	65.00	Indian Summer,			Durham			T.	10.50	85.00	1-yr., No. 1	8.50	70.00	Cumberland, Logan,			Morrison, Bristol			No. 1, tips	6.00	45.00	Blackhawk			No. 1, tips	15.00	100.00	Concord			2-yr., No. 1	15.00	100.00	Niagara, Catawba,			Fredonia			2-yr., No. 1	16.00	120.00	Seneca, Golden			Muscat			2-yr., No. 1	25.00	Mary Washington			3-yr., heavy	\$4.50	\$30.00	2-yr., No. 1	3.00	20.00	1-yr., No. 1	2.00	14.00	<h3>RHUBARB</h3> <table border="0"> <tr> <th></th> <th>Per</th> <th>Per</th> <th>Per</th> </tr> <tr> <td></td> <td>10</td> <td>100</td> <td>1000</td> </tr> <tr> <td>Canada Red....</td> <td>\$4.00</td> <td>\$35.00</td> <td>\$300.00</td> </tr> <tr> <td>MacDonald</td> <td>3.50</td> <td>30.00</td> <td>250.00</td> </tr> </table> <h3>BLUEBERRIES</h3> <table border="0"> <tr> <td>Jersey, Rubel,</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rancocas</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2-yr., 9 to</td> <td></td> <td></td> <td></td> </tr> <tr> <td>12 ins.</td> <td>3.50</td> <td>32.50</td> <td>300.00</td> </tr> <tr> <td>3-yr., 12 to</td> <td></td> <td></td> <td></td> </tr> <tr> <td>18 ins.</td> <td>5.00</td> <td>47.50</td> <td>450.00</td> </tr> <tr> <td>4-yr., 18 to</td> <td></td> <td></td> <td></td> </tr> <tr> <td>24 ins.</td> <td>7.00</td> <td>67.50</td> <td>650.00</td> </tr> <tr> <td>5-yr., Jersey only,</td> <td></td> <td></td> <td>\$1.00 each.</td> </tr> </table> <h3>GOOSEBERRIES</h3> <table border="0"> <tr> <td>Houghton</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3-yr., heavy</td> <td>3.50</td> <td>30.00</td> <td>.....</td> </tr> <tr> <td>2-yr., No. 1</td> <td>2.50</td> <td>20.00</td> <td>.....</td> </tr> </table> <h3>HORSERADISH</h3> <table border="0"> <tr> <td>Cuttings</td> <td>.50</td> <td>3.00</td> <td>20.00</td> </tr> <tr> <td>Whole roots ..</td> <td>.90</td> <td>6.50</td> <td>45.00</td> </tr> </table>		Per	Per	Per		10	100	1000	Canada Red....	\$4.00	\$35.00	\$300.00	MacDonald	3.50	30.00	250.00	Jersey, Rubel,				Rancocas				2-yr., 9 to				12 ins.	3.50	32.50	300.00	3-yr., 12 to				18 ins.	5.00	47.50	450.00	4-yr., 18 to				24 ins.	7.00	67.50	650.00	5-yr., Jersey only,			\$1.00 each.	Houghton				3-yr., heavy	3.50	30.00	2-yr., No. 1	2.50	20.00	Cuttings50	3.00	20.00	Whole roots ..	.90	6.50	45.00
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We will give a 5 per cent deduction on peach in lots of 1000.

rial blackberries with American commercial strains have failed because plant breeders were unable to make the collected plants bloom for pollinization. In the hope of overcoming this difficulty, the Darrow collection was sent immediately

to scientists who had domestic blackberry plants already in flower.

ANNOUNCEMENT was recently made that Sunny Side Farm, Irving, Tex., is going out of the nursery business.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

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CENTINELA BOARD MEETS

The board of directors of the Centinela chapter, California Association of Nurserymen, met February 11 at the home of Robert Warner, Manhattan Garden Supply, Manhattan Beach. The meeting was called to order by President George Schmidt, Frontier Nursery, Redondo Beach, and the treasurer's report was given by Keiji Yata, Yata Nursery, Torrance.

Included in correspondence read by Mr. Schmidt were letters from Elmer Merz, C. A. N. executive secretary, reporting that the refund from the association's group compensation insurance amounted to 48 per cent of the premium and requesting members to sign a petition to have a referendum on the right-to-work law placed on the next ballot.

A letter from the C. A. N. president, Willis Stribling, Merced, contained a report on the activities of the association officers in matters affecting the nursery industry and a reminder of the nurserymen's refresher course to be held June 3 and 4 at California State Polytechnic College, San Luis Obispo.

Robert Warner presented a motion that a change in the 1959 C. A. N. convention site (Honolulu) be discussed at the next chapter meeting, as it is unlikely that attendance will be adequate at the Hawaii location. The motion was seconded and passed. The chapter delegate, Richard Oehlman, Florence Nursery, Los Angeles, will be instructed to present the chapter's views on the matter at the state board of directors' meeting March 25.

The chapter directors also agreed to place a request for a change in convention rules on the agenda of the state directors' meeting. This change would require that future convention sites be proposed on the first day of the C. A. N. convention, rather than on the last day, so that they may be more thoroughly considered before a vote is taken.

An application from Lloyd's Nursery, Gardena, for membership in the chapter was approved.

Mr. Oehlman announced that the location of the chapter's exhibit at the California international flower and garden show, scheduled for March 14 to 23 at Hollywood park,

was changed to gain a more suitable space for the display. Since the chapter will receive at least \$250 from the show for its entry, it was moved by Mr. Warner that expenditures to that amount be authorized for preparation of the exhibit. The motion was seconded and passed.

Before the meeting was adjourned, the date for the next board meeting was set as March 10 at the home of Kenneth Terry, Manhattan Beach, and March 27 was chosen as the date for the March general meeting of the chapter, to be held at the Wayfarer's restaurant.

B. Packard, Sec'y.

MONTEREY BOARD MEETING

Members of the board of directors of the Monterey Bay chapter, California Association of Nurserymen, met February 6 at the Harbor Inn, Moss Landing. President Louis Olave, Hollister Seed Co., Hollister,

read a letter from the C. A. N. executive secretary, Elmer Merz, concerning the signing of a petition to submit the right-to-work law to the voters of California in a referendum. The board members passed a motion made by Pat Antonelli, Antonelli Bros., Santa Cruz, to circulate the petition among the nurseries in Monterey county, and Thomas Tanaka, Tanaka Nursery, Monterey, volunteered for the task.


President Olave reported on the chapter presidents' conference held last October. He discussed some of the suggestions given by C. A. N. President Willis Stribling for chapter procedures and equipment, including the presentation of an engraved gavel to the incoming president at his installation.

Bruce Stone, E. B. Stone & Son, Salinas, reviewed proposed topics for future meeting programs, among which were nursery merchandising and selling, nursery layout and organization, landscaping for a living, advertising for nurseries and nursery accounting.

Joanne Nishi, Sec'y.

CALIFORNIA NOTES

The University of California extension division sponsored a series of meetings for Santa Clara county re-



Willis A. Stribling

Why It's

MODESTO ASH

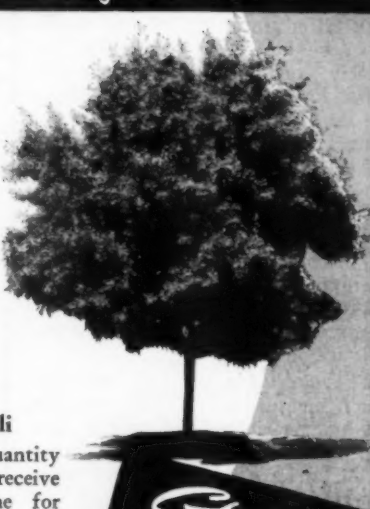
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tail nurserymen. Farm adviser Peter Lert scheduled the meetings in the Sunnyvale high school, Sunnyvale, February 20 and March 6 and 13. March 6 a dinner meeting was held at Mariani's, at Sunnyvale, in conjunction with the monthly meeting of the Peninsula chapter of the California Association of Nurserymen. Topics discussed included soil conditioners and amendments, fertilizers, pruning and grafting, planting trees in the home garden, turf problems, fungus and insect pests in home gardens and weed control in home and nursery operations.

The California state department of agriculture has quarantined a large section of the city of Sacramento after the discovery of an outbreak of the citrus fly. An intensive spray and eradication program is under way, for this is a serious pest of all kinds of ornamentals and fruits. This is the first occurrence of the fly in the state in about 20 years.

William Mitchell, a Los Altos tree surgeon, suffered painful though not serious burns when he ran into his burning home to rescue his wife and daughter. The wife and daughter were not injured, but the damage to the home was called extensive.

Dr. Richard E. Baker, horticulturist at the University of California at Berkeley, was selected as consultant for the Strybing Arboretum in Golden Gate park at San Francisco. Dr. Baker succeeds Eric Walther, who retired about a year ago after 40 years' service.

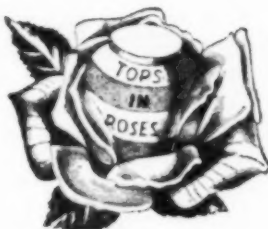
At the February 14 meeting of the Bay area air pollution control district, agriculturists were given a two months' delay of observance of the ban on burning agricultural trash. The ban was to have gone into effect March 1, while some communities had already put the order into effect. The protesting groups had requested a full year's extension of the burning period. The farm bureau, which led the protest, has now announced that it will call on the University of California and the agricultural extension services of the university to come up with a disposal solution. Arborists and most nurserymen have already made plans to dispose of agricultural wastes in some manner other than burning, but they feel the costs are excessive and are looking for other means than those now at their disposal.

The University of California has made a report on some studies on the use of gibberellic acid in the growing of grapes. Conclusions to date indicate that the material gives specific effects on the fruit set, berry size and

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Acer rubrum (Red Maple)
Aesculus hippocastanum (Horse Chestnut)
Catalpa speciosa (Northern Catalpa)
Cercis canadensis (Eastern Redbud)
Gleditsia triacanthos inermis (Thornless Honey Locust)
Liquidambar styraciflua (Sweet Gum)
Malus (Flowering Crab Apple), many varieties
Phellodendron amurense (Amur Cork Tree)
Populus boleana (Boleiana Poplar)
Populus canadensis eugenei (Carolina Poplar)
Populus nigra italica (Lombardy Poplar)
Populus simoni (Simon Chinese Poplar)
Prunus (Flowering Plums) in variety
Prunus subhirtella pendula (Single Weeping Cherries)
Pyrus calleryana (Callery Ornamental Pear)
Quercus palustris (Pin Oak)
Robinia pseudoacacia (Black Locust)
Salix babylonica (Babylon Weeping Willow)
Salix blanda (Wisconsin Weeping Willow)
Sophora japonica (Pagoda Tree)
Ulmus carpinifolia Christine Buisman (Buisman Elm)
(Dutch elm disease-resistant)
Ulmus glabra (Scotch Elm)
Zelkova serrata (Japanese Zelkova)

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elongation of cluster points. Pictures accompanying the report bear out the thought that the material has a definite value for grape growers.

The alumni in ornamental horticulture from the Cal Poly Institute at San Luis Obispo held its February meeting at San Lorenzo. Two new officers were selected to replace those who had resigned when they moved out of the bay area. The next meeting will be held March 19, when the group will be hosts to the seniors at the college, who will be in the bay area on their annual tour of nurseries. It is planned this year that the group also will be present at a meeting of one of the bay area chapters of the California Association of Nurserymen.

Mrs. Mary Lamb Courtright, mother of Gordon Courtright, East Bay Nurseries, Berkeley, died in her home at Larkspur. She was 79 years old.

Joseph L. Enos, Alameda county nursery inspector, died in a Niles hospital February 15.

NEW TETIRICK NURSERY

Following in the footsteps of his forebears, Blake C. Tetirick is the fourth generation of the Tetirick family to enter the nursery business. He recently established a garden center and nursery at Maple Valley, Wash.

His great grandfather, Elias, started the Gurnsey Co. nursery at Winterset, O., in 1835. Elias' son, J. W. Tetirick, established the Eagle Nursery at Belmont, Kan., in 1884 and then moved to Blackwell, Okla., in 1898, where he opened the C. V. Nurseries. He retired in 1913, and his son, J. W. Tetirick, Jr., took over the firm. The last-named is Blake's father and the present proprietor of the C. V. Nurseries.

ARBORISTS' COMMITTEES

The California Arborists Association met at its usual meeting place in Redwood City February 19. President Silvester Evans announced the chairmen of some additional standing committees, and those chairmen who were present announced the names of the men who would work with them this year. Committees announced at this time were membership, Victor C. Weltzin, Palo Alto Tree Surgeon, Palo Alto; program, John Davis, Davis Tree Service, Menlo Park, and George Hood, Palo Alto park system; public relations, Millard Blair, Blair Tree Service, Mountain View; B. E. Edwards, Davis Tree Service, and George

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24 to 36 ins....	\$32.50	\$275.00
12 to 18 ins....	25.00	200.00
6 to 12 ins....	20.00	150.00

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Lilies

Daffodils

Hood; Arbor day, George Hood; executive board, Roger Sohner, Sohner Tree Service, Marin county; Frank Noland, Noland Tree Service, Palo Alto; Victor Weltzin, and as ex officio members, the president, secretary and treasurer of the association.

It was announced that the professional standards committee would continue as of a year ago. The president requested that the group review from time to time the standards as presently drawn up, to remove any standards which might be obsolete and to add any others that would be of benefit to the membership or customers.

Some time was devoted to the discussion of the bans on the burning of tree trimmings and removals. It was generally agreed that extensions of the deadline will postpone the problem for only a short time.

The group viewed a sound movie in color prepared by the University of California, entitled "Natural Enemies of Our Insects." It was an excellent presentation of the life histories of several of the parasites and predators of the insects attacking crops of economic value in California. Shown, too, was a picture tour through one of the state's biologic control laboratories where natural enemies of the crop pests are reared for release into orchards and other places.

Before adjourning for coffee and doughnuts, the members appropriated \$100 to be used by the National Shade Tree Conference in the making of a time-lapse film for rental to professional or amateur garden groups.

George Hood stated that for an Arbor day activity, March 7, an oak would be planted on the grounds of the Stanford convalescent home.

W. B. B.

OREGON NOTES

The Sunset chapter of the O. A. N. met at the Forest Hills Country Club near Cornelius, Ore., February 17. Fifty-six were present, including the O. A. N. president, Joseph Klupenberger, and several guests. Elected as officers for the coming year were Roy K. Smith, Valley View Nursery, Beaverton, president; Pat Dering, Peterson & Dering, rose grower, Scappoose, vice-president, and James Doty, Doty & Doerner, Inc., Portland, secretary-treasurer. Henry Hausch, Roseway Nursery, Beaverton, and Wayne Melott, Carlton Nursery, Forest Grove, were elected members of the O. A. N. state board of directors. Riverside Nursery, Tillamook, Ore., became a member

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Oregon-grown shade and flowering trees.

Combination carloads east in
February and March.

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Ash Green, 6 to 7 ft., 5 to 6 ft.

Ash, Modesto, 5 to 6 ft., 4 to 5 ft.

Birch, Cut-leaved Weeping, 3 to 4 ft., 2 to 3 ft.

Birch, European White, 10 to 12 ft., 8 to 10 ft., 5 to 6 ft., 4 to 5 ft.

Catalpa, 8 to 10 ft.

Chinese Elm, 10 to 12 ft., 8 to 10 ft., 5 to 6 ft., 4 to 5 ft.

Crab Apple—Flowering Variety, 5 to 6 ft., 4 to 5 ft., 3 to 4 ft.

Honey Locust, Imperial, 6 to 8 ft.

Honey Locust, Sunburst, whips, 3 to 4 ft.

Honey Locust, Thornless, 6 to 8 ft.

Locust, Black, 8 to 10 ft.

Maple, Crimson King, whips, 7 to 8 ft.

Maple, Faassen's, 2-yr., light, br., 6 to 8 ft., 5 to 6 ft., 4 to 5 ft.

Maple, Faassen's Red-leaved, br., 6 to 8 ft.

Maple, Faassen's Red-leaved, whips, all sizes.

Maple, Norway, 10 to 12 ft., 8 to 10 ft., 6 to 8 ft., 5 to 6 ft.

Maple, Norway, whips, 5 to 6 ft., 4 to 5 ft., 3 to 4 ft., 2 to 3 ft.

Maple, Norway Pyramidal, whips, 8 to 9 ft., 7 to 8 ft.

Maple, Norway Silver, Var., 6 to 8 ft., 5 to 6 ft.

Maple, Norway Silver, Var., whips, 7 to 8 ft., 6 to 7 ft.

Maple, Red Rubrum, 6 to 8 ft., 5 to 6 ft., 4 to 5 ft.

Maple, Schwedler, 6 to 8 ft., light, br., 6 to 8 ft., 5 to 6 ft., 4 to 5 ft.

Maple, Schwedler, whips, 8 to 9 ft., 7 to 8 ft., 6 to 7 ft., 5 to 6 ft., 4 to 5 ft.

Maple, Silver, heavy, 10 to 12 ft., 8 to 10 ft., 5 to 6 ft.

Maple, Sugar, 5 to 6 ft.

Mountain Ash, European, 10 to 12 ft., 8 to 10 ft., 6 to 8 ft., 5 to 6 ft., 4 to 5 ft.

Mountain Ash, European, whips, 6 to 7 ft., 4 to 5 ft., 3 to 4 ft.

Oak, Pin, 9 to 10 ft., 8 to 9 ft., 7 to 8 ft., 6 to 7 ft.

Plum, Flowering Birelana, br., 4 to 5 ft., 3 to 4 ft.

Plum, Flowering Birelana, whips, 4 to 5 ft., 3 to 4 ft.

Plum, Flowering, Cistena, 3 to 4 ft., 2 to 3 ft.

Plum, Flowering Newport, 5 to 6 ft., 4 to 5 ft.

Plum, Flowering Pissardi, 4 to 5 ft., 3 to 4 ft.

Plum, Flowering Thundercloud, 4 to 5 ft., 3 to 4 ft.

Plum, Flowering Vesuvius, 5 to 6 ft., 3 to 4 ft.

Poplar, Lombardy, 10 to 12 ft., 8 to 10 ft., 6 to 8 ft., 5 to 6 ft.

Sweet Gum, B&B, 5 to 6 ft., 4 to 5 ft.

Willow, babylonica, 8 to 10 ft., 6 to 8 ft., 5 to 6 ft.

Willow, Golden, 5 to 6 ft.

Willow, Wisconsin, 10 to 12 ft., 6 to 8 ft., 5 to 6 ft.

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Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials—Quality Stock in All Leading Varieties. Trade catalog on request.

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WHITE'S SILVER KING JUNIPER**(Plant Pat. No. 1186)**

The White's Silver King Juniper is a new dwarf evergreen that attains a height of 18 ins. It has a beautiful silver-blue color, retaining a good color both summer and winter.

With trailing, spreading branches, well-filled with foliage, it will, with a little shearing, form a dense mass. The White's Silver King Juniper is a gem among the Juniper family combining as it does delightful qualities of color, foliage, habit of growth and hardiness.

Plants from 3-in. pots	Each		
	\$0.75		
Plants from 1-gal. containers, sheared twice,		18 to 24 ins., B&B	Each
10 to 12 ins.	1.25	24 to 30 ins., B&B	\$3.00
12 to 15 ins.	1.50	30 to 36 ins., B&B	3.50
15 to 18 ins.	1.75		4.00

CARL WHITE'S NURSERY**716 S. Ninth Ave.****Walla Walla, Wash.**

of the chapter during the meeting. Lee Sturges, Stauffer Chemical Co., showed a fine educational film on Vapam, then answered questions.

The Multnomah county annual spring garden show, April 23 to 27, promises to be one of the finest yet held, according to Joseph Klupenger, Klupenger Nursery, publicity chairman. A modified version of an Oriental garden will be the theme garden this year. A unique feature of the theme garden will be a simulated thundershower. Approximately every 10 minutes the lights will dim, lightning will flash and thunder will roll, after which a downpour will fall upon a body of water and a Japanese arched bridge. Drawing the general plans for the theme garden is Lawrence Underhill, landscape architect of Portland, and the show coordinator is James H. Wagner, Portland landscape gardener.

Avery Steinmetz, Portland Wholesale Nursery Co.; Joseph Klupenger, Klupenger Nursery, Portland, and Charles Potter, executive secretary of the O. A. N., have been working with Portland civic leaders in the formulation of plans for the International Garden of Tomorrow, which is planned as an integral part of the Oregon centennial celebration in 1959. The garden will embrace entries from nations of the world and states of the Union. Heading the committee for the garden will be Dean Collins, famed horticultural writer. It is hoped that the garden will be maintained permanently after the centennial celebration. The show will start June 10, 1959, and run for 100 days, a day for each year that Oregon has been a state in the Union.

Returning recently from an eastern trip was Ralph L. Elser, Elser Nursery, Milwaukie. Mr. Elser visited his 84-year-old father in Ohio and then traveled through Pennsylvania and Virginia.

Elected as president of the Cascade chapter of the Oregon Association of Nurserymen at a recent meeting was Myron Lehne, Lehne Nursery, Roseburg, Ore. A. M. Cooper,

LINING-OUT STOCK

BROAD-LEAVED EVERGREENS: Daphne odora, Andromeda, Aucuba, Skimmia, rooted cuttings, \$100.00 per 1000. **CONIFERS:** Juniper, Cypress, Arborvitae, Yews, rooted cuttings, \$100.00 per 1000; plant bands, \$150.00 per 1000. French strain English Holly, rooted cuttings, \$20.00 per 100; Variegated Holly, rooted cuttings, \$25.00 per 100.

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AZALEAS—HOLLIES
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Cooper's Gardens, Canyonville, was elected vice-president, and J. Vernon Marshall, Marshall Florist & Nursery, Roseburg, was elected secretary-treasurer. Mr. Marshall was also elected a member of the O. A. N. state board of directors.

E. Mike Dering, Peterson & Dering, rose grower, Scappoose, will leave during the spring for an extended trip to Europe, where he will visit rose growers. While on this trip Mr. Dering will arrange for rosebushes to be shipped to Portland to be displayed in the International Garden of Tomorrow during Oregon's centennial celebration.

At the recent meeting of the Rose City chapter of the Oregon Association of Nurserymen, Robert Walker, Holgate Nursery, Portland, was re-elected president; Martin Holmason, Pacific Coast Nursery, Portland,

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FLOWERING ORNAMENTAL TREES
SHADE TREES**

**Constant Vigilance Results
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TREE PEONIES**(Famous Yamato-Noen Strain)**

Named grafted varieties in all colors.

	Each	Each	Each
	Per 10	Per 100	Per 1000
1-yr.	\$1.10	\$0.95	\$0.80
2-yr.	1.50	1.40	1.25

Higo Iris, \$23.50 per 100, 10 varieties.

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RHODODENDRON AND EVERGREEN LINERS*In Season***J. B. WHALLEY**

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vice-president, and Lowell Cole, Oliver & Thompson Wholesale Florists, secretary-treasurer. Elected to serve on the O. A. N. state board of directors were George Caldwell, Stark Street Nursery, and Emmett Shaffer, Shaffer's Pansy Gardens, Portland. Ed Schultz, Calorwash Nursery, and Jack Kelly, Kelly's Landscape Nursery, both of Portland, were elected to serve on the board of directors for the chapter.

C. H. P.

NEW ANTIBIOTICS

The discovery of two new closely related antibiotics that show promise in controlling important fungous plant diseases was described by Dr. Jack Ziffer, Pabst Laboratories, Milwaukee, Wis., before the annual meeting of the American Phytopathological Society August 8 at Stanford University, Palo Alto, Calif. Dr. Ziffer led the team of Pabst scientists who discovered and conducted initial research on the two new antibiotics, called phytoactin and phytostreptin.

He said that the substances gave effective control of such important fungous plant diseases as oak wilt, early blight and late blight of tomatoes, bean rust and barley blight in laboratory and greenhouse tests. These diseases annually destroy crops and trees valued at millions of dollars. It is felt that the development of phytoactin and phytostreptin as economical pest control chemicals could broaden the success of farmers, foresters, nurserymen and home gardeners against plant diseases.

LENORA WALTERS RESIGNS

Lenora G. Walters, who has served the Washington State Nurserymen's Association as secretary-treasurer for nearly five years, tendered her resignation from the posts at the association's board of directors' meeting at Vancouver the end of January. She has asked that the resignation become effective not later than August 31 and will continue her activities until that time. Opportunity to elect a successor will occur at the August meeting of the group, tentatively scheduled for Longview, Wash.

Stating that her period of office has been most enjoyable, Mrs. Walters declares that her organization duties combined with her family obligations have increased to the point where it is not possible for her to do justice to both.

DARBY NURSERY was recently opened by Mr. and Mrs. J. D. Downey at 2235 Darby street, Muscog, Calif.

REGISTRATION of the Flournoy Landscape Co. as the legal name of his business at Inglewood, Calif., was recently filed by William R. Flournoy.

BEGINNING his Harrison Street Nursery, 448 West Harrison street, Roseburg, Ore., with a selection of bedding plants, A. C. Austin intends to offer general nursery stock in the future.



Unretouched picture of Roeland de Wilde III and his ingenious Vapam® applicator at work at the Rhodo-Lake Nurseries, Shiloh, N.J.

Vapam Soil Fumigant Must Be Good To Inspire A Rig Like This

Why else would anyone take a perfectly good rototiller and convert it into a special rig for applying Vapam?

Simply because this very *special* soil fumigant wipes out sub-surface parasites so effectively — at such reasonable costs per acre.

In nurseries and new orchard sites, in commercial seed beds and large acreage planted to vegetables, Vapam controls weed-seeds, fungi, nematodes, club root and other soil-borne diseases. It penetrates the soil deeply . . . leaves it *clean* as a whistle.

Vegetables, ornamentals, nursery stock and young fruit trees grow *stronger* in clean soil . . . yield richer harvests, bigger profits.

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Commercial growers can apply Vapam with a rototiller, bedder or injector. You can even introduce Vapam into most irrigation systems.

Vapam is soluble in water, requires no ground covers or other special equipment.

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Minimum order, \$4.00.

Instructions for the April 15 issue must be received by Friday, March 28.

Forms for May 1 issue will close Friday, April 11.

AGERATUMS

QUALITY AGERATUMS, ROOTED CUTTINGS
\$2.50 per 100, \$20.00 per 1000.
Riverside, best true dwarf; Masterpiece and Purple Beauty.
WINTER GREENHOUSES
Perry, Lake Co., O.

AZALEAS

HEAVY FIELD-GROWN LINERS
1-yr., 4 to 6 ins. and 6 to 9 ins. in the following varieties:
Double Hino, Fedora, Good Times, Herbert Hino, Lorna, Louise Gable, Mary Ann, Mrs. L. C. Fischer, Mrs. Addy Wery, Othello, Purple Splendor, Rosebud, Rose Greeley, Snow, Wil. Vuyk.
First-class stock for field planting.
Hinodegiri and Snow, \$35.00 per 100.
All other varieties, \$45.00 per 100.
FLATTED SPRING LINERS
Now flattened in large flats of 50 plants each, growing on for May 1 delivery.
Double Hino, Elizabeth Gable, Fedora, Hino-Crimson, Lorna, Louise Gable, Mary Ann, Mrs. L. C. Fischer, Mrs. Addy Wery, Othello, Purple Splendor, Rosebud, Rose Greeley, Snow, Wil. Vuyk.
All, \$25.00 per 100. Ask for our new list.
JAMES S. WELLS NURSERY, INC.
P. O. Box 141 Red Bank, N. J.

AZALEAS

Our plants are grown in the open field, single rows, sheared, compact plants.
100 rate
6 to 8 ins. B&B.....\$0.75
8 to 10 ins. B&B......90
10 to 12 ins. B&B.....1.15
12 to 15 ins. B&B.....1.40
15 to 18 ins. B&B.....1.90
Hinodegiri, in quantity; smaller lots of Snow, Coral Bella, sherwood, indica alba and Glenn Dale in larger sizes, 18 to 24 ins., B&B, \$2.50.
DANNEGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

AZALEA LINERS

DELIVERY SPRING 1958
POT-GROWN
ATLANTA DELAWARE VAL-
CORAL BELLS LEBY WHITE
FLAME FEDORA
HERBERT J. T. LOVETT
INDICA MAGNIFICA PINK PEARL
ROSEBUD SNOW
CARMEN

FLAT-GROWN

HINODEGIRI
\$14.00 per 100, \$125.00 per 1000.
DELAWARE VALLEY NURSERY
948 N. Broad St. Elizabeth 3, N. J.

AZALEAS

Thousands of fine quality, field-grown Azaleas, ready for spring delivery. Dense, bushy, heavily budded plants of all sizes up to 3 ft. 200 varieties of kurume, Glenn Dale, Gable, Kaempfer and many others. Extra nice plants priced right. Write for our trade list or visit our nursery.

ELDRIDGE'S NURSERY
717 Hillen Road Towson 4, Md.
Phone Valley 5-3824

NEW! NEW!! NEW!!!

GABLE'S LATEST AND BEST AZALEA STEWARTSTOWNIAN
Dwarf Kurume habit, dark red foliage, deep red flowers, hose-in-hose. Completely hardy.
A limited quantity of spring liners will be available for May 1 delivery.
\$50.00 per 100. Ask for our new list.
JAMES S. WELLS NURSERY
P. O. Box 141 Red Bank, N. J.

AZALEAS, 2-YR. BEDDED STOCK 100
Knaphill, hybrida, s.....\$20.00
Mollis, hybrida, s.....20.00
3-YR. BEDDED STOCK
Knaphill, some budded.....35.00
Mollis, some budded.....35.00
MAHLSTEDT BROS.
5323-5351 Wilson Mills Rd. Cleveland 24, O.

AZALEAS FOR FORCING
AND LANDSCAPE PLANTING
Write for list of varieties, sizes and prices.
LEVICK NURSERY CO.
R. D. 3 Bridgeton, N. J.

VA. FIELD-GROWN KURUME AZALEAS.
Thousands, in size range 4 to 6, 15 to 18.
DAVIS PINE POINT NURSERY
Wachapreague, Va.

KURUMES, GLENN DALES, ETC.
Thousands of beautiful Hino-Crimson and other evergreen Azaleas. Dense, bushy, well-budded, for landscape planting and forcing.
Order now before we are sold out.
THE TANKARD NURSERIES, Exmore, Va.

SURPLUS, THOUSANDS OF AZALEAS
2 to 8 ft., leading varieties. Indicas, Kurumes, Macranthas. Make offer.
SILVER BAY NURSERIES, Daphne, Ala.

BARBERRIES

RED-LEAVED BARBERRY
(Atropurpurea) 2-yr. seedlings.
Per 100 Per 1000
Lining-out.....\$ 4.50 \$ 40.00
9 to 12 ins. 9.00 80.00
12 to 18 ins. 12.00 110.00
18 to 24 ins. 16.00 140.00
RED-LEAVED BARBERRY
(Atropurpurea) 4-yr. transplants.
Heavy stock. Per 100 Per 1000
9 to 12 ins.\$24.00 \$200.00
12 to 18 ins. 28.00 240.00
18 to 24 ins. 32.00 280.00
2 to 2 1/2 ft. 36.00 320.00

GREEN BARBERRY
(Thunbergi) 4-yr. transplants.
Heavy stock. Per 100 Per 1000
9 to 12 ins.\$20.00 \$160.00
12 to 18 ins. 24.00 200.00
18 to 24 ins. 28.00 240.00
Our red Barberry is one of the finest strains in the U. S. A.
DANNEGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

RED-LEAVED BARBERRY
Berberis thunbergi atropurpurea.
Heavily rooted transplants.
9 to 12 ins. 20c.
12 to 18 ins. 25c.
18 to 24 ins. 30c.
THE COOK PLACE
Dock Rd. Madison, O.

MENTOR BARBERRY
Heavy transplants 10 100 1000
15 to 18 ins.\$5.00 \$45.00 \$400.00
18 to 24 ins. 6.00 55.00 500.00
2 to 2 1/2 ft. 7.00 65.00 600.00
2 1/2 to 3 ft. 8.50 80.00
WILLIS NURSERY CO., OTTAWA, KAN.

BERRY PLANTS

WHOLESALE BULK
STRAWBERRY PLANTS
F.O.B. Bristol, Ind.
If you have your own cold storage facilities, our bulk price list will interest you. For large quantity quotation, please write.

JUNE BEARING Per 1000
*Blakemore\$ 9.50
*Dunlap 9.50
*Robinson 10.00
*Bellmar 10.00
*British Sovereign 12.00
*Catskill 12.00
*Pocahontas 12.00
*Premier 12.00
*Sparkle 12.00
*Tennessee Beauty 12.00
*Armstrong 12.00
*Empire 12.00
*Parish Perfect (plant pat. No. 1442) 12.00
*Vermillion 12.00
*Crimson Flash 14.00
*Paymaster (trade-mark) 14.00
*Wisconsin 214 14.00
*Jumbo (trade-mark) 20.00
EVERBEARING
*Gem 20.00
*Superfection 20.00
*Streamliner 22.00
*Twentyfirst Century 25.00
*Red Rich (plant pat. No. 992) 75.00
Established retail prices on Red Rich: 12 plants, \$2.95; 25 plants, \$5.00; 50 plants, \$8.50; 100 plants, \$15.00; 250 plants, \$32.50; 500 plants, \$62.50; 1000 plants, \$120.00.
*Grown from virus-free planting stock.
JUDSON NURSERIES, INC.
Phone 1-2945 Bristol, Ind.

CALIFORNIA CERTIFIED SHASTA
STRAWBERRY PLANTS
Freshly dug, northern-grown, dormant plants. May be shipped at any time needed. Quantity rates available. Write for further information.
WHEELER'S NURSERY
P. O. Box 459 Los Molinos, Calif.

RED RASPBERRIES

No. 1 suckers No. 1 transplants
Per 100 Per 1000
Latham, Newburgh, Taylor...\$55.00 \$45.00
Indian Summer, Durham,
Milton, Williamette 60.00 70.00
Chief, Sunrise, St. Regis..... 50.00 60.00
September, Amber Yellow..... 70.00 80.00
BLACK RASPBERRIES
Cumberland, Bristol No. 1 tips \$48.00 per 1000
PURPLE RASPBERRIES
Sodus, No. 1 tips.....\$ 50.00
No. 1 transplants.....100.00
Stock can be shipped any time during winter or early spring. List of other offerings upon request.

CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.
TENNESSEE CERTIFIED
VIRUS-FREE STRAWBERRY PLANTS
*Blakemore, Dunlap, Klondike, Robinson, \$7.50 per 1000. *Premier, Tennessee Beauty, Pocahontas, \$10.00 per 1000. *Armstrong, Tenn. Shipper, Tenn. Supreme, \$9.00 per 1000. 20th Century Everbearing, \$15.00 per 1000. Streamliner, Superfection, \$15.00 per 1000. Gem, \$12.00 per 1000. 5 per cent discount for cash with order. Plants marked (*) virus-free.
SNOWHILL STRAWBERRY NURSERY
Coltswah, Tenn.
Phone Chattanooga, Fillmore 4-6732.

NEW MIDNITE BLACKBERRY
Introduced fall 1957. Fine, large berry, heavy fruiting.
Send for complete descriptive circular.
Per 100 Per 1000
1-yr., No. 1 plants.....\$12.50 \$100.00
2-yr., No. 1 plants..... 17.50 150.00
LOWDEN, another Blackberry of Eldorado type, from Canada.
1-yr., No. 1 plants.....\$ 9.50 \$ 85.00
2-yr., No. 1 plants..... 12.50 100.00
SCARFF'S NURSERY, INC.
New Carlisle, O.

STRAWBERRY AND RASPBERRY PLANTS
The latest and best in small fruits, including Blaise, Merrimack, Empire, Surecrop, Earlclaw and 40 other varieties.
Durham and September Everbearing Red Raspberries, Latham (mid-season), Gatineau and Madawaska (very early).
Write for free catalog and wholesale price list.
WALTER K. MORSS & SON
Bradford, Mass.

STRAWBERRIES
Senator Dunlap and Giant Robinson, \$12.00 per 1000; 5000 for \$50.00. All orders filled with freshly dug plants. You will never buy better plants. Send your order now; shipment will be made at proper planting time. Terms: Cash with order, or at least 1/3, balance on delivery. 50 days of growing good plants.
LAKE VIEW FRUIT FARM
Route 5 Coldwater, Mich.

ROYAL SEEDLESS BLUE GRAPE
Highest quality Grape in existence. Nearly as large as Concord, but much sweeter, harder and heavier bearing. Just as vigorous and healthy. Ripens with Moore's Early, 15 years under test. As hardy as Beta. 2-yr. No. 1, 2 for \$6.00 cash. Plants that die replaced free if reported by August 1.
SCHWAB FRUIT FARM & NURSERY
220 N. 5th St. Mankato, Minn.

EVERBEARING STRAWBERRY PLANTS
Hardy, well-rooted, northern-grown plants; irrigated, true to name and free of disease. Gem, \$12.00 per 1000; 5000 up, \$11.00. Superfection, \$13.00 per 1000; 5000 up, \$12.00. Streamliner, \$16.00 per 1000; 5000 up, \$15.00.
Formerly Davis Plant Farm, Hamilton.
PLEASANT VIEW NURSERY, Victor, Mont.

STRAWBERRY AND RASPBERRY PLANTS
Everbearing Superfection, \$12.00 per 1000; Streamliner, \$15.00. One crop: Robinson, Dorsett, Marshall, Northwest and Lassen, \$12.00 per 1000. Raspberry plants, Latham and Newburgh, \$60.00 per 1000. All large, healthy plants, true to name.
MCNEAL BERRY NURSERY
Hamilton, Mont.

BERRY PLANTS
Red Raspberries, black Raspberries, Grapes, Asparagus, Rhubarb, Blueberries, Gooseberries and Horseradish. See our priced ad on page 99.
KRIEGER'S WHOLESALE NURSERY
Bridgman, Mich.

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SCHWAB GOOSEBERRIES, large as Pluma. New seedling (world's largest Gooseberry). Berries often 1 1/2-in. in dia.; highest quality, hardy, very productive, very sweet, 1-yr. heavy, \$4.50 per 10; 2-yr. light, \$6.00 per 10; bearing size, \$7.50 per 10. 5 per cent discount for cash or free baling. Plants that die replaced at half price.

SCHWAB FRUIT FARM & NURSERY
220 N. 5th St. Mankato, Minn.

Strawberry plants, double inspected, northern-grown: Dunlap, Blakemore, Giant Robinson, Premier, Armore, 1000. \$7.50; 5000 up, \$7.00 per 1000. Giant Gem, Streamliner, Superfection everbearing, 1000, \$15.00; 5000 up, \$14.00 per 1000. These are young, healthy, moss-packed plants, grown from virus-free stock. Guaranteed to reach you in good growing condition. Iowa Nursery, Farmington, Ia.

STRAWBERRY PLANTS, WELL-ROOTED
Double inspected, irrigated. Per 1000
Dunlap \$ 7.50
Blakemore 8.00
Robinson 9.00
Armore 10.00
Premier 11.00
Everbearing, Superfection and Gem 16.00
DOLLAR NURSERY, BLOOMFIELD, IA.

BLUEBERRIES -10 100
3-yr., 12 to 13 ins. \$5.50 \$45.00
4-yr., 18 to 24 ins. 7.00 60.00
Stanley, Atlantic, Jersey, Pemberton, Burlington, Blue-ray.

WAYNESBORO NURSERIES
Waynesboro, Va.

STATE INSPECTED STRAWBERRIES
Dunlap, \$7.50; Paymaster, \$9.50; Premier, Sparkle, Temple, Early or Red June, \$8.50 per 1000. Cash with order. F.O.B.

ROLLING ACRES, R. 4, HOLLAND, MICH.
New Hampshire Raspberries, latest red, from agricultural experimental station. Hardy, heavy bearing, commercial variety. List.
Pine-Croft Nurseries, Exeter 3, N. H.

BULBS AND TUBERS

TUBEROUS BEGONIAS
Giant double flowering **CAMELLIA TYPE**, 4 colors. 100 1000
1 1/4 to 1 1/2-in. \$ 5.50 \$ 45.00
1 1/2 to 2-in. 8.50 75.00
2 to 2 1/2-in. 13.50 125.00
Minimum order \$5.00.

FIMBRIATA (Carnation type), double flowering, 6 colors.
1 1/4 to 1 1/2-in. \$ 7.50 \$ 60.00
1 1/2 to 2-in. 11.50 100.00
2-in. and up 15.00 140.00
Minimum order \$5.00.

LOUIS DANK
1170 Broadway New York 1, N. Y.

FANCY-LEAVED CALADIUMS
The finest of commercial named varieties. Over 75 varieties absolutely free from disease, fully upgraded.

Per 100 Per 1000
No. 2, 3/4 to 1-in. \$ 7.00 \$ 60.00
No. 2, 1 to 1 1/2-in. 12.00 110.00
No. 1, 1 1/4 to 2 1/2-in. 18.00 150.00
Jumbo, 2 1/4 to 3-in. 25.00 230.00
Mammoth, 3-in. up 37.00 350.00
Minimum order \$5.00.

LOUIS DANK
1170 Broadway New York 1, N. Y.

GLOXINIAS
The best commercial varieties.
Per 100 Per 1000
1 1/4 to 1 1/2-in. \$ 7.50 \$ 65.00
1 1/2 to 2-in. 14.00 130.00
2 to 2 1/2-in. 25.00 230.00
Mammoth, 2 1/4-in. up 30.00 275.00
Minimum order \$5.00.

LOUIS DANK
1170 Broadway New York 1, N. Y.

BUXUS

BOXWOODS

3500 sheared specimens.
18 to 24 ins., \$3.75 each; 100 rate, \$3.00.
F.O.B. Silva, N. C.

J. A. WEDDINGTON & SON
4414 Holston Drive Knoxville, Tenn.

BUXUS SEMPERVIRENS
10, 12 and 14 ins.
\$10.00 per 100, \$90.00 per 1000.
SPRING ACRES NURSERY
Morris, Ga.

CAMELIAS

SURPLUS, THOUSANDS OF CAMELIAS
2 to 5 ft., best standard and rare varieties, including grafts. Make offer.
SILVER BAY NURSERIES, Daphne, Ala.

CHRYSANTHEMUMS

FLORETUM COLORFUL GARDEN MUMS
Bred for early blooming, frost tolerance, winter hardiness. Ask for trade list.
PRairie Southwest Floretum
Fall River, Kan.

CHRYSANTHEMUMS

Hardy field-grown clumps with all the runners intact, \$10.00 per 100, \$90.00 per 1000. Available after April 1. F.O.B. Zeeland, Mich. 60 varieties to choose from in the cushion and also taller growing varieties. Ask for new list.

WALTERS GARDENS

Route 2 Zeeland, Mich.
Newest hardy Chrysanthemums, from N. H., Minn., Ore. and Wyo. experimental stations. Small lot purchases invited. List.
Pine-Croft Nurseries, Exeter 3, N. H.

GARDEN MUMS, ROOTED CUTTINGS
1958 list now ready. Many new varieties.
FAIRVIEW NURSERY, COON RAPIDS, IA.

CLEMATIS

CLEMATIS MONTANA RUBENS
(Pink Anemone Clematis)
A strong, vigorous hardy variety thriving under most adverse conditions. Blooms profusely around Memorial day.
3 to 4 ft., staked, field-grown, br.
\$100.00 per 100.
C. HOOGEENDOORN
Turner Rd. Newport, R. I.

COTONEASTERS

COTONEASTER DIVARICATA

Heavy, 2 to 3 ft. plants.
bare-root, \$100.00 per 100.
F.O.B. Cash with order.

MAYO BROS. NURSERIES
Fairport, N. Y.

DOGWOODS

PINK-FLOWERING DOGWOOD
(Cornus florida rubra)
AMERICA'S FAVORITE
FLOWERING TREE.

Each, 10 100 1000
2 to 3 ft., bare-root \$2.00 \$1.75 \$1.50
3 to 4 ft., bare-root 2.50 2.00 1.75
4 to 5 ft., bare-root 3.50 3.00 2.75
5 to 6 ft., bare-root 4.50 4.00 3.75

Budded on transplanted seedlings.
Heavy, fibrous root system.
Sturdy caliper.
Heavily branched.
Properly grown.
Liberal graded.

50 or more at 100 rate.
300 or more at 1000 rate.
NAUGHER'S packing is free when cash, check or money order accompanies order.
You'll like NAUGHER'S quality!

NAUGHER NURSERY
Chase, Alabama

DOGWOOD

CORNUS FLORIDA RUBRA, 2-YR.
7 to 8 ft., B&B \$7.00
5 to 7 ft., B&B 5.50
5 to 6 ft., B&B 4.50
4 to 5 ft., bare-root 3.50
3 to 4 ft., bare-root 2.00
30 to 36 ins., bare-root 1.40
24 to 30 ins., bare-root 1.10

CORNUS FLORIDA RUBRA, 1-YR.
24 to 30 ins., bare-root 1.25
18 to 24 ins., bare-root 1.00
12 to 18 ins., bare-root65
6 to 12 ins., bare-root50

CORNUS FLORIDA, WHITE-FLOWERING
Seedlings. Per 1000
4 to 6 ins. \$20.00
6 to 12 ins. 30.00
12 to 18 ins. 40.00
Flowering Crab Apples, Eley and Almey.
Assortment of Apple, Peach, Plum and Apricot trees.

IKE HAWKERSMITH NURSERY
Winchester, Tenn.

WHITE-FLOWERING DOGWOOD
Nursery-grown transplants.
Heavy caliper, well-branched. Each
3 to 4 ft., bare-root \$1.50
3 to 4 ft., B&B 1.95
4 to 5 ft., bare-root 2.00
4 to 5 ft., B&B 2.25
5 to 6 ft., bare-root 2.25
6 to 7 ft., B&B 4.50
7 to 8 ft., B&B 6.00
8 to 9 ft., B&B 8.00

We really have the buds this year.
Supply limited. Phone 395.
WHERRY'S NURSERIES, St. Marys, W. Va.

Field-grown Dogwood liners 100 1000
Pink Dogwood, dormant buds \$20 \$175
Double white flower, dormant buds 30 250
The latest Dogwood (Super Red) \$2
White Dogwood, seedlings, 4 to 6 ins., \$15.00 per 1000; 6 to 12 ins., \$25.00; 12 to 18 ins., \$40.00. Quality stock. Write for price list. Wayne's Ornamental Nursery, P. O. Box 120, Winchester, Tenn.

DOGWOOD SCIONS
Cornus florida rubra, good brilliant pink for grafting, 5c.
DUGAN NURSERIES, INC.
Center St. Perry, O.

5 AND 6-YR. CORNUS FLORIDA

Heavy branched. Each, 10 100
4 to 5 ft., bare-root \$2.50 \$2.00
5 to 6 ft., bare-root 3.50 3.00
6 to 8 ft., bare-root 4.00 3.50
EGYPTIAN NURSERY & LANDSCAPE CO.
Farina, Ill.

EVERGREENS, Liners

EVERGREEN LINERS AND CUTTINGS
POT-GROWN STOCK

Each, 100 1000
Stock from 2 1/2-in. pots
Arborvitae, American, dark green.
1-yr., 6 to 7 ins. \$0.26 \$0.24
Arborvitae, pyramidalis, 1-yr.,
6 to 7 ins.26 .24
2-yr., 6 to 8 ins.30 .28
Juniperus pfitzeriana, Armstrong's,
1-yr., 5 to 6 ins.26 .24
Juniperus chinensis pfitzeriana,
1-yr. pots, 6 to 7 ins.26 .24
2-yr. pots, 6 to 9 ins.30 .28
Juniperus glauca hetzi, 1-yr.,
6 to 7 ins.26 .24
Taxus hicksii, 2-yr., 6 to 8 ins.30 .28
Taxus andersonii, 2-yr., 6 to 8 ins.30 .28
Taxus cuspidata, 2-yr., 6 to 8 ins.30 .28
Taxus media compacta, spreading,
2-yr., 6 to 8 ins.30 .28
Euonymus alatus compactus,
1-yr., 6 to 7 ins.20 .18
Korean Boxwood, 1-yr., 3 ins.22 .20
Buxus sempervirens, 1-yr.,
3 to 4 ins.20 .18

HEAVY ROOTED CUTTINGS

From flats, growing outside in lath house.
Boxwood, Korean, hardy, 3 ins. \$0.09 \$0.08
Euonymus alatus compactus, 5 ins.09 .08
Juniperus glauca hetzi, 6 ins.13 .12
Arborvitae, pyramidalis,
5 to 6 ins.13 .12
Taxus hicksii, 5 to 6 ins.13 .12
Taxus intermedia, 5 to 6 ins.13 .12
Taxus cuspidata, 5 to 6 ins.13 .12
Taxus andersonii, 5 to 6 ins.13 .12
Taxus media, 5 to 6 ins.13 .12
Taxus hatfieldi, 4 to 5 ins.13 .12
Taxus brownii, 4 to 5 ins.13 .12
TERMS: Packing and boxing free, 3 per cent discount for cash with order.
250 plants of each variety at 1000 rate.

MIAMI NURSERY CO.
Tipp City, O.

EVERGREENS

ROOTED CUTTINGS 100 1000
Arborvitae woodwardii \$0.09 \$0.08
Arborvitae pyramidalis, 6 to 8 ins.10 .09
Andorra Juniper, 4 to 8 ins.11 .10
Pfitzer Juniper, 4 to 8 ins.11 .10
Hetz Juniper, 4 to 8 ins.11 .10
Taxus andersonii, 6 to 8 ins.12 .09
Taxus brownii12 .11
Taxus capitata (leaders), 6 to 8 in.14 .12
Taxus cuspidata, 6 to 8 ins.09 .08
Taxus hicksii, 6 to 8 ins.09 .08

1-YR. TRANSPLANTS
Arborvitae woodwardii, 6 to 8 ins.20 .18
Taxus cuspidata, 6 to 8 ins.20 .18
Taxus hicksii, 6 to 8 ins.20 .18

2-YR. TRANSPLANTS
Arborvitae woodwardii, 8 to 10 ins.27 .25
Taxus cuspidata, 8 to 10 ins.32 .30
Taxus hicksii, 8 to 10 ins.32 .30
Taxus capitata (leaders), 8 to 12 in.36 .34

3-YR. TRANSPLANTS
Taxus capitata (leaders), 10 to 14 in.45 .40
Andorra Juniper, 10 to 14 ins.35 .30

GRAFTS

Per 10 Per 100
Juniperus canariensis \$0.65 \$0.60
Juniperus burkii65 .60
Juniperus keteleeri65 .60
Juniper, Spartan80 .75
Koster Spruce \$1.25 each
SHRUBS
Euonymus alatus, 15 to 18 ins.30 each
Euonymus yedoensis, 3 to 4 ft.90 each
50 of a variety at 100 rate.
300 of a variety at 1000 rate.

DRAKE'S NURSERIES
G-4342 Branch Rd. Flint 6, Mich.

EVERGREEN LINERS

Each, 100 1000
Taxus andersonii, 2-yr., heavy \$0.30 \$0.27 1/2
Taxus hicksii, 2-yr., heavy30 .27 1/2
Taxus cuspidata, 2-yr., heavy 27 1/2 .25
Ilex convexa, 2-yr., heavy25 .20
Ilex rotundifolia, 2-yr., heavy25 .20
Tsuga canadensis, 10 to 15 ins.30 .25
ROOTED CUTTINGS, READY IN MAY.
Taxus brownii10 .09
Taxus andersonii10 .09
Taxus intermedia10 .09
Taxus hunekeana10 .09

HERMAN LOSELY AND SON
R. D. 1 Chagrin Falls, O.

EVERGREEN SEEDLINGS 100 1000
Colorado Blue Spruce,
2-0, 2 to 4 ins. \$ 4.00 \$25.00
3-0, 3 to 6 ins. 6.00 30.00
3-0, 4 to 8 ins. 9.00 45.00
Scotch Pine (non-yellowing)
2-0, 2 to 6 ins. 7.00 35.00
2-0, 5 to 10 ins. 9.00 45.00
Concolor Fir, 2-0, 3 to 6 ins. 10.00 50.00
Douglas Fir, 2-0, 4 to 6 ins. 7.00 35.00
Douglas Fir, 3-0, 5 to 10 ins. 10.00 .
Japanese Fir, 4-0, 8 to 12 ins. 20.00 .
Am. Arborvitae, 3-0, 6 to 14 ins. 8.00 40.00
NEUNE'S NURSERY
368 Eichler Rd. Pittsburgh 2, Pa.

EVERGREENS, Liners—Continued

POTTED AND FIELD LINERS		Per 100	Per 1000
<i>Taxus media</i> Adams			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	\$18.00	\$170.00	
2-yr., 2 1/4-in. rose pots,			
8 to 12 ins.	24.00	220.00	
3-yr., TT, 8 to 12 ins.	35.00	325.00	
<i>Taxus media</i> andersoni			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
<i>Taxus media</i> brownii			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
2-yr., 2 1/4-in. rose pots,			
6 to 10 ins.	25.00	230.00	
<i>Taxus cuspidata</i> , 1-yr., 2 1/4-in.			
rose pots, 4 to 6 ins.	18.00	170.00	
2-yr., 2 1/4-in. rose pots,			
6 to 12 ins.	24.00	220.00	
<i>Taxus cuspidata</i> , semi-up			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
2-yr., 2 1/4-in. rose pots,			
6 to 12 ins.	25.00	230.00	
3-yr., TT, 8 to 12 ins.	35.00	325.00	
<i>Taxus cusp. capitata</i> , seedling-			
grown, 3-yr., 2 1/4-in. rose			
pots, 8 to 12 ins.	22.50	200.00	
3-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	27.50	250.00	
3-yr., TT, 6 to 12 ins.	35.00	325.00	
<i>Taxus media</i> Halloran			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
2-yr., TT, 6 to 12 ins.	35.00	325.00	
<i>Taxus media</i> hatfieldi			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
<i>Taxus media</i> hatfieldi No. 11			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
2-yr., 2 1/4-in. rose pots,			
6 to 12 ins.	25.00	230.00	
<i>Taxus media</i> hicksi			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
2-yr., 2 1/4-in. rose pots,			
6 to 12 ins.	24.00	220.00	
<i>Taxus intermedia</i>			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
2-yr., 2 1/4-in. rose pots,			
6 to 12 ins.	24.00	220.00	
<i>Taxus media</i> kaleeyi			
2-yr., 2 1/4-in. rose pots,			
4 to 8 ins.	25.00	230.00	
<i>Taxus media</i> thayerae			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
<i>Taxus media</i> wardii			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	22.50	200.00	
3-yr., TT, 6 to 10 ins.	40.00	350.00	
<i>Taxus media</i> welleriana			
4-yr., TT, 8 to 15 ins.	50.00	450.00	
<i>Juniperus horizontalis</i> plumosa			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
<i>Juniperus communis</i> depressa			
aurea 2-yr., TT, 6 to 12 ins.	30.00	270.00	
<i>Juniperus glauca</i> hetzi			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
2-yr., 2 1/4-in. rose pots,			
6 to 10 ins.	24.00	220.00	
2-yr., TT, 8 to 12 ins.	30.00	270.00	
<i>Juniperus (Irish)</i> fastigiata			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
<i>Juniperus chin.</i> pfitzeriana			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	22.50	200.00	
2-yr., 2 1/4-in. rose pots,			
6 to 10 ins.	26.00	240.00	
3-yr., TT, 6 to 12 ins.	30.00	270.00	
<i>Thuja occ. douglasii</i>			
2-yr., TT, 6 to 12 ins.	30.00	270.00	
<i>Thuja occ. elegantissima</i>			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
<i>Thuja occ. globosa</i>			
2-yr., TT, 6 to 8 ins.	30.00	270.00	
<i>Thuja occ. Hetz's Winter Green</i>			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	20.00	180.00	
<i>Thuja occ. pyramidalis</i>			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
<i>Thuja occ. wareana</i> (Siberian)			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
2-yr., TT, 6 to 8 ins.	30.00	270.00	
3-yr., TT, 6 to 12 ins.	37.50	350.00	
<i>Thuja occ. woodwardii</i>			
1-yr., 2 1/4-in. rose pots,			
4 to 6 ins.	18.00	170.00	
3-yr., TT, 6 to 8 ins.	30.00	270.00	

Complete catalog on request.
HEASLEY'S NURSERIES
247 Freepoint Rd. Butler, Pa.

BERCKMANS' GOLDEN ARBORVITAE

OUR SPECIALTY		Each, 100	1000
Sturdy liners, dirt-grown in full sun.			
4 to 6 ins.	8c	7 1/2c	
6 to 8 ins.	11c	10c	
8 to 10 ins.	16c	15c	
10 to 12 ins.	22c	20c	

THE BUSH RANCH
140 Woodland Dr. Thomasville, Ga.
James W. Lawson, Mgr. Phone CA 6-4245

EVERGREENS

ROOTED CUTTINGS		100	1000
Arborvitae, American,			
6 to 8 ins.	\$ 9.00	\$ 80.00	
Arborvitae, elegantissima,			
5 to 6 ins.	10.00	90.00	
Arborvitae, globe, 5 to 6 ins.	10.00	90.00	
Arborvitae, pyramidal,			
6 to 8 ins.	9.00	80.00	
<i>Juniperus</i> (Andorra) plumosa,			
4 to 5 ins.	9.00	80.00	
<i>Juniperus glauca</i> hetzi,			
6 to 8 ins.	10.00	90.00	
<i>Juniperus comm. hibernica</i>			
(Irish), 5 to 6 ins.	10.00	90.00	
<i>Pieris japonica</i> , 4 to 5 ins.	11.00	100.00	
<i>Taxus brownii</i> , 4 to 6 ins.	10.00	90.00	
<i>Taxus brevifolia</i> , 5 to 6 ins.	12.00	110.00	
<i>Taxus cuspidata</i> , 6 to 8 ins.	9.00	80.00	
<i>Taxus hatfieldi</i> , 6 to 8 ins.	12.00	110.00	
<i>Taxus hicksi</i> , 6 to 8 ins.	11.00	100.00	
<i>Taxus intermedia</i> , 6 to 8 ins.	11.00	100.00	
<i>Taxus pyramidalis</i> , 6 to 8 ins.	12.00	110.00	
<i>Taxus repandens</i> , 5 to 6 ins.	12.00	110.00	
<i>Taxus wardii</i> , 4 to 6 ins.	12.00	110.00	
<i>Taxus wymani</i> , 5 to 6 ins.	12.00	110.00	
3-YR. TRANSPLANTS	Each, 100		
Arborvitae, American, 12 to 15 ins.	\$3.30		
<i>Juniperus glauca</i> hetzi, 12 to 15 ins.	.45		
<i>Retinosporas</i> , 18 to 21 ins.	.35		
<i>Taxus cuspidata</i> , 12 to 15 ins.	.45		

TERMS: Orders under \$100.00, cash with order, please. Orders over \$100.00, one-half deposit with order.

NEIDEL'S NURSERY & GREENHOUSE

Mtd. Rt. 4, Hanson Heights
Oil City, Pa.

EVERGREEN LINERS

NANA		Each, 100	1000
Field-grown, 2-yr.	\$0.35	\$0.30	
2-in. pots, 1-yr.	.21	.18 1/2	
ARMSTRONG PFTZER JUNIPER			
2-in. pots, 1-yr.	.21	.18 1/2	
2-in. pots, 2-yr.	.25	.22 1/2	
Field-grown, 3-yr.	.45	.40	
HETZ GLAUCA JUNIPER			
2 1/2-in. pots, 1-yr.	.21	.18 1/2	
BURK JUNIPER			
2 1/2-in. pots, 1-yr.	.22 1/2	.20	
TAXUS ANDERSONI			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS COLUMNARIS			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS CUSPIDATA			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS HICKSI			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	
TAXUS MEDIA			
2 1/2-in. pots, 1-yr.	.20	.17 1/2	

TERMS: Cash with order. Free packing.

300 plants of a variety at 1000 rate.

50 plants of a variety at 100 rate.

VOGE NURSERY

New Lebanon, O.

HEAVY ROOTED CUTTINGS

Per 100 Per 1000			
Arborvitae, American, dark			
grecia; 6 to 10 ins.	\$0.10	\$0.09	
Arborvitae, pyramidal,			
6 to 10 ins.	.10	.09	
Arborvitae, globe, 4 to 8 ins.	.10	.08	
<i>Juniperus hetzi</i> glauca,			
6 to 10 ins.	.10	.08	
<i>Juniper</i> , Pfitzer, 6 to 10 ins.	.11	.09	
<i>Juniper</i> , Savin, 6 to 10 ins.	.10	.08	
<i>Juniper</i> , Von Ehrh, 6 to 10 ins.	.11	.09	
<i>Juniper</i> , Andorra, 6 to 10 ins.	.11	.09	
<i>Taxus cuspidata</i> , 6 to 10 ins.	.11	.09	
<i>Taxus hicksi</i> , 6 to 10 ins.	.11	.10	
<i>Taxus hunnewelliana</i> ,			
6 to 10 ins.	.13	.12	
<i>Taxus capitata</i> , 6 to 8 ins.	.13	.12	

2-YR. TRANSPLANTS

Per 100

Juniper, Pfitzer, 6 to 10 ins. \$0.25

Juniperus hetzi glauca .25

Juniper, Andorra .25

250 at 1000 rate. Spring delivery.

2 per cent discount, cash with order.

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Grandville, Mich.

EVERGREEN LINERS AND CUTTINGS

ROOTED CUTTINGS

Pfitzer Juniper .10c

Pfitzer Hetz Juniper .10c

2 1/4-IN. POTTED

Pfitzer Juniper .20c

Pfitzer Hetz Juniper .20c

Pyramidal Arborvitae .20c

TOWNSEND EVERGREEN NURSERY

S. Walnut St. Hartford City, Ind.

SCOTCH PINE

North German low plain.

Good Christmas tree type 100 1000

1-yr. seedlings, 3 to 5 ins. \$2.50 \$11.00

3-YR. BLUE LAWSON CYPRESS

From seed taken in N. E. United States.

2-1, T, 4 to 8 ins., \$3.00 per 100, \$25.00 per 1000.

Cash with order, free packing.

CARLSON'S EVERGREENS

Duneland Beach Michigan City, Ind.

ROOTED CUTTINGS FROM SAND

Per 100 Per 1000

Taxus andersoni \$11.00 \$100.00

Taxus brownii 11.00 100.00

Taxus cuspidata 10.00 80.00

Taxus hicksi 10.00 80.00

Taxus wardii 15.00 125.00

Taxus intermedia 11.00 100.00

LEVEL GREEN NURSERY, Trafford, Pa.

EVERGREEN LINERS.

Well established grafts out of 2 1/4-in. rose

pots.

Cupressus arizonica garei

Cupressus arizonica Greenwood

Libocedrus decurrens

Biota orientalis conspicua

Juniperus chinensis Blue Columnar

Juniperus scopulorum Blue Haven

Juniperus scopulorum erecta viridis

Juniperus scopulorum kenyonii (Dewdrop)

Juniperus scopulorum Pathfinder

Juniperus scopulorum wehlii

Juniperus keteleeri

Juniperus virginiana canaerti

Juniperus virginiana Dundee

Juniperus virginiana Hydro Green

Juniperus squamata meyeri

30 years' experience in evergreen grafting.

All grafts on well-established root stocks,

hardened off for field or container planting.

Delivery March 15.

50c in 1000 quantities.

55c in 100 quantities.

300 at 1000 price.

KENYONS NURSERY, DOVER, OKLA.

POTTED LINERS

2 1/4-in. pots.

100 1000

Taxus, Adams, 1-yr. \$18.00 \$170.00

Taxus andersoni, 1-yr. 18.00 175.00

Taxus andersoni, 2-yr. 24.00 230.00

Taxus brownii, 1-yr. 18.00 175.00

Taxus brownii, 2-yr. 24.00 230.00

Taxus capitata, 1-yr. 18.00 170.00

Taxus capitata, 2-yr. 23.00 220.00

Taxus cuspidata, 1-yr. 17.00 160.00

Taxus cuspidata, 2-yr. 22.00 210.00

Taxus cuspidata, 3-yr., TT. 32.00 300.00

Taxus hicksi, 1-yr. 18.00 170.00

Taxus hicksi, 2-yr. 23.00 220.00

EVERGREEN SEEDLINGS

Scotch Pine, 2

JUNIPERS

Chinensis Blue Vase (Pfitzer sport), hardy wherever Pfitzer grows. When 2 ft. high, will be 2 ft. wide. No trimming. A natural blue-gray color.

	Per 100	Per 1000
Chinensis Blue Vase, 6 ins., 2 1/2-in. pots.....	\$20.00	\$180.00
Chinensis sylvatica, 2-yr., 12 to 15 ins., 2 1/2-in. pots.....	20.00	180.00
Chinensis fortunei, 2-yr., 12 to 15 ins., 2 1/2-in. pots.....	20.00	180.00
Thuja orientalis Blue Spire, 8 to 10 ins., 2 1/2-in. pots.....	18.00	160.00

These are heavy, pot-grown liners, ready for outside planting.

BRADSHAW'S NURSERY

League City, Tex.
Phone 8-4811

EVERGREENS		100	1000
Scotch Pine, 2-yr., 4 to 8 ins....	\$	3.50	\$20.00
Scotch Pine, 3-yr., 6 to 12 ins....		7.00	30.00
Scotch Pine, 2-2, 10 to 12 ins....		12.00	65.00
Austrian Pine, 2-yr., 3 to 6 ins....		3.50	20.00
Austrian Pine, 3-yr., 6 to 12 ins....		6.00	30.00

American Red Pine, 2-yr., 2 to 4 ins..... 15.00

3-yr., 6 to 12 ins..... 5.00 25.00

Norway Spruce, 2-yr., 3 to 5 ins..... 3.50 20.00

Norway Spruce, 3-yr., 6 to 12 ins..... 7.00 35.00

Colorado Blue Spruce, 2-yr., 2 to 4 ins..... 3.50 20.00

3-yr., 6 to 10 ins..... 7.50 40.00

Douglas Fir, 3-yr., 4 to 8 ins..... 6.00 30.00

Write for complete price list and planting information.

CHAPMAN'S NURSERY

553 Church St. Indiana, Pa.

HIGHEST QUALITY EVERGREEN LINERS

Azaleas, Junipers, Floris, Rhododendrons, Taxus, Thuja, Tsugas and others. 100 items, lowest possible cash prices. Seedlings and transplants, from 4c. Rooted cuttings and transplants, from 10c. Generous cash and quantity discounts.

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R.F.D. 2, Box 114, Kingston, Mass.

Phone KINGSTON 2557

Member NEW ENGLAND NURSERYMEN'S ASSOCIATION

QUALITY LINERS

	Per 100
Douglas Fir, 5 to 8 ins., tr.....	\$15.00
Mugho Pine, 3 to 4 ins., tr.....	15.00
Canadian Hemlock, 4 to 8 ins., tr.....	17.50
Colorado Blue Spruce, 4 to 8 ins., tr.....	17.50
Viburnum carlesii, 4 to 12 ins., tr.....	25.00
Enkianthus camp., 5 to 12 ins., tr.....	25.00
French hybrid Lilacs, 4 to 8 ins., tr.....	27.50
American Holly, 6 to 10 ins., tr.....	27.50
Rhus (best varieties), 6 to 8 ins.....	27.50
Tax. hybrids (red seed), 4 to 10 ins.....	50.00
Pink Fir Dogwood, 10 to 15 ins.....	75.00
Red Jap. Maple, 1-yr. grafts.....	55.00

Send for new spring list.

POSSUM HOLLOW NURSERIES

6909 Henley St. Philadelphia 19, Pa.

ROOTED CUTTINGS AND TRANSPLANTS

Strong, true to type, rooted cuttings of the following:

Taxus varieties: Brownl. kelseyi, hicksi, femina, wardi, Hill's dwarf pyramidal, dwarf erecta and cuttings.

Hill's pyramidal and boothi Arborvitae.

These are large cuttings, hormone treated and radiant heat grown, producing an abundance of strong roots.

\$10.00 per 100 plants.

Write for prices of 2 and 3-yr. transplants of the above varieties.

Free packing for cash with order.

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339 Cherry St. Montoursville, Pa.

CANADA HEMLOCK

Collected seedlings.

Per 100 Per 1000

6 to 9-in. seedlings..... \$ 5.00 \$ 30.00

9 to 12-in. seedlings..... 8.00 70.00

12 to 16-in. seedlings..... 15.00 120.00

18 to 24-in. seedlings..... 30.00

These are first-quality, collected Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.

Send for complete list of hardy native Ferns, wild flowers, trees, shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

SPECIAL, SPRING 1958 ONLY

Block to be cleared; row-run.

50 100 1000

3-yr. Engelmann Blue Spruce, X..... \$5.00 \$30.00

3-yr. Mugho Pine, XX..... \$7.50 \$45.00

Order early. Limited supply.

PINE MOUNTAIN NURSERIES

Iron Mountain, Mich.

EUONYMUS RADICANS, UPRIGHT

(SARCOCOE) 9 to 12 ins., 25c.

KRUMMEL NURSERY

Carthage, Mo.

JUNIPER GRAFTS

Varieties: Canaert, Keteleeri, burki, glauca, hetzi, Pfitzer and chinensis columnaris, blue. Prices: 45c each, regardless of the number bought.

Terms: 1/4 cash with order, plus boxing and packing at cost and balance before shipping date, or, all cash with order and boxing and packing free.

WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM.

T. C. CRUME NURSERY CO.

Highway No. 42 Florence, Ky.

Phone Atlantic 3-2361

ROOTED CUTTINGS

	100	1000
Ready approximately May 1.....	\$10.00	\$85.00
Boxwood.....	8.00	65.00
Juniperus depressa.....	10.00	85.00
Taxus cuspidata.....	10.00	85.00
Taxus hicksi.....	10.00	85.00
Arborvitae pyramidalis.....	10.00	85.00

25 at 100 rate; 300 at 1000 rate. Shipped prepaid if cash with order, or 50 per cent deposit, balance C.O.D. you pay shipping.

MARKAY NURSERY

Lake St. Middlefield, O.

PINE, SPRUCE SEEDLINGS AND LINERS

100 1000

Scotch Pine, 3-yr., 8 to 14 ins..... \$ 6.00 \$35.00

Colo. Blue Spruce, 4-yr., 6 to 12 ins..... 8.00 55.00

Norway Spruce, 3-yr., 6 to 12 ins..... 6.00 40.00

Juniperus glauca hetzi, 2-yr., 6 to 12 ins..... 25.00

Spreading Jap. Yew, 3-yr., 4 to 8 ins..... 30.00

Write for complete list.

PAINT CREEK NURSERIES

Shipperville, Pa.

NORTHERN ALABAMA PFITZER JUNIPER LINERS

Heavy roots, sturdy stems, twice sheared tops.

Per 100 Per 1000

2-yr., 8 to 12 ins., root-pruned..... \$25.00 \$200.00

400 at 1000 rate, 5 per cent discount for payment with order or 10 days before shipment.

We dig plants from field rows and pack well just before shipment with view of sending only vigorous plants in good condition.

EVA NURSERIES, EVA, ALA.

2 1/2-IN. POTS, WELL-ROOTED

5000 Pfitzer Juniper, 18c each.

3000 Andorra Juniper, 16c each.

2000 Taxus cuspidata (Yew), 17c each.

S. D. MANHART,

2449 Highmore Rd., Box 461

Highland Park, Ill.

Phone ID 2-6681

CHRISTMAS TREES

Transplants. Per 1000

Scotch Pine, 4-yr., 12 to 18 ins., 2-2..... \$70.00

Austrian Pine, 6 to 10 ins., 4-yr..... 65.00

Norway Spruce, 12 to 18 ins., 4-yr..... 70.00

Colo. Blue Spruce, 8 to 12 ins., 4-yr..... 100.00

Blue Douglas Fir, 8 to 14 ins., 3-yr..... 50.00

Gray Douglas Fir (caesia), 10 to 18 ins., 80.00

W. S. YOE NURSERIES

Lake St. Madison, O.

EVERGREENS

Each

200 Greek Juniper, 3 to 4 ft., nice..... \$2.90

275 Hicks Yew, 2 to 3 ft., heavy..... 3.25

900 Hicks Yew liners, 2 yrs. in field, 8 to 14 ins..... .45

Buyer must dig and haul.

CHANOSKI'S NURSERY

Route 1 Jeannette, Pa.

Phone LA 3-4691

PINE TREE SEEDLINGS

Per 1000

Scotch Pine, 3-yr., 8 to 12 ins..... \$35.00

Scotch Pine, 3-yr., 12 to 16 ins..... 45.00

Scotch Pine, 3-yr., 4 to 8 ins..... 25.00

Austrian Pine, 3-yr., 8 to 12 ins..... 35.00

Mugho Pine, 3-yr., 3 to 5 ins..... 40.00

KISSINGER'S NURSERY

26 Ridge Ave. Homer City, Pa.

EVERGREENS

Strong 2-yr. Evergreen liners, out of 2 1/2-in. pots. Regular green Pfitzer Juniper, Hetz (blue), Pfitzer, Andorra Juniper, Von Ehron Juniper. All \$25.50 per 1000. Cash please.

DIEHL'S FLOWER SHOP & NURSERY

R. R. 1, Box 150 Columbia, Ill.

EVERGREENS

See our Classified Ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.

Columbus, Miss.

Watch Your Results From American Nurseryman Classified Ads.

EVERGREENS, B&B

EVERGREENS, B&B

We have several blocks of B&B Evergreens, shade trees, shrubs and flowering Dogwood, which we will sell by the block, in the ground, at REAL BARGAIN PRICES. All nice, sheared material. To avoid delay write, or phone 395 evenings in advance. Ask for our spring list to the trade.

WHERRY'S NURSERIES, St. Marys, W. Va.

EVERGREENS, B&B

Each, 100

Berberis julianae..... \$1.50

15 to 18 ins..... 2.00

18 to 24 ins..... 1.50

Berberis sargentiana..... 2.00

2 to 2 1/2 ft..... 2.50

3 to 3 1/2 ft..... 1.35

Viburnum rhytidophyllum..... 1.50

18 to 24 ins..... 2.00

24 to 30 ins..... 2.50

30 to 36 ins..... 2.50

2 to 2 1/2 ft..... 2.25

2 1/2 to 3 ft..... 2.50

Ilex crenata convexa..... 1.75

15 to 18 ins., heavy, field..... 2.25

18 to 24 ins., heavy, field..... 3.00

24 to 30 ins., heavy, field..... 1.50

Ilex crenata rotundifolia..... 2.10

15 to 18 ins., heavy, field..... 1.75

18 to 24 ins., heavy, field..... 2.25

Ilex crenata globosa..... 1.75

15 to 18 ins., heavy, field..... 2.25

18 to 24 ins., heavy, field..... 2.25

Special rates in 1000 lots.

Trade list includes many others. Ask for it.

LINDLEY NURSERIES, INC.

Box H Greensboro, N. C.

WHITE PINE (PINUS STROBUS)

25 up 100 up

15 to 18 ins., B&B, 12-in. ball..... \$1.50 \$1.45

18 to 24 ins., B&B, 12 to 14-in. ball..... 1.75 1.70

24 to 30 ins., B&B, 12 to 14-in. ball..... 2.10 2.05

AMERICAN RED PINE (PINUS RESINOSA)

15 to 18 ins., B&B, 12-in. ball..... \$1.50 \$1.45

18 to 24 ins., B&B, 12 to 14-in. ball..... 1.75 1.70

24 to 30 ins., B&B, 12 to 14-in. ball..... 2.10 2.05

30 to 36 ins., B&B, 15-in. ball..... 2.40 2.35

Choice specimen plants, 6 years old, trimmed 3 times. Fertilized; with good soil ball in rot-proof burlap if desired.

Terms: 30 days net, 1/3 with order, 2 per cent 10 days. Deliveries to Mich., Ill., Ind., Pa. and adjoining states.

WADE CHRISTMAS TREE FARMS

Route 1 Bellville, O.

JUNIPERS

Canaert Juniper, sheared, 4 to 5 ft., row-run..... \$3.75

Canaert Juniper, not sheared, 6 to 7 ft., nice..... 3.50

Keteleer Juniper, not sheared, 6 to 7 ft., nice..... 3.50

Keteleer Juniper, sheared, 3 to 4 ft., heavy..... 3.00

Pfitzer Juniper, 3 to 4 ft., heavy..... 3.00

Hetz Juniper, 3 to 4 ft., heavy..... 3.00

Fastigiata Juniper, 5 to 6 ft., perfect..... 2.75

Chinese Blue Columnar Juniper, 5 to 6 ft., perfect..... 3.75

These plants are a bargain at these prices. Visit our nurseries and you will find many other bargains.

T. C. CRUME NURSERY & LANDSCAPING CO.

Highway No. 42 Florence, Ky.

12 miles south of Cincinnati, O.

Phone Atlantic 3-2361

EVERGREENS

Surplus stock, all B&B.

Grown from rooted cuttings in heavy rich soil.

Excelsa Arborvitae, 3 to 4 ft..... \$1.25

Bonita Arborvitae, 18 to 24 ins..... 1.00

Pfitzer Juniper, 18 to 24 ins..... 1.25

Pfitzer Juniper, 24 to 30 ins..... 1.50

Procumbens Juniper, 18 to 24 ins..... 1.00

Junipers have been sheared and are full.

Stock to be dug after order received.

Prices quoted are F.O.B. our nursery.

WISE ADKISSON & SONS

Box 546 Greenville, Tex.

PINES PINES PINES

2500 3 to 6-ft. Austrian, Scotch and White.

We dig or you dig.

Quantity desired and who does the digging governs the price.

NATIONAL LANDSCAPING CO., INC.

Route 2 Palatine, Ill.

FRUIT AND NUT TREES

FRUIT TREES

PEACH TREES, Dixired, Redhaven, Burbank Elberta, 2 to 3 ft., 30c; 3 to 4 ft., 40c; 4 to 5 ft., 50c each.

APPLES, Jon-a-del, New. Originated in Iowa. A cross between Jonathan and Red Delicious. It has all the good qualities of each of them and is flavored more mild than the Jonathan, and has more acid than the Delicious. It is sure to make a number one commercial apple. 2 to 3 ft., \$1.40; 3 to 4 ft., \$1.65; 4 to 5 ft., \$1.95.

CHERRIES, Large Montmorency, Early Richmond, 11/16 and up, 95c; 9/16 to 11/16, 80c. Good height.

PEARS, Campus Kieffer, 3 to 4 ft., 35c; 4 to 5 ft., 45c; 5 to 6 ft., \$1.05.

DWARF APPLES, Red Jonathan, Red Delicious, Turkey Red Stayman, Yellow Delicious, Summer Champion, 2 to 3 ft., \$1.00; 3 ft. and up, whips, \$1.45; 3 ft. and up, branched, \$1.50.

DWARF CHERRIES, Meteor and North Star, 1 to 2 ft., 65c; 2 to 3 ft., 95c.

BENTON COUNTY NURSERY CO., Rogers, Ark.

PEACH TREES, 1-YR.

4 to 5 ft. 40c each
5 to 6 ft. 50c each
Varieties: Elberta, Early Elberta, Dixigem, Geo. Bell, Early Elley, Golden Jubilee, Redhaven, Giant Hale, Maydower and Burbank Elberta.

APPLE TREES, 1-yr., mostly whips
2 to 3 ft. 30c each
3 to 4 ft. 35c each
4 ft. up 45c each

Varieties: Red Delicious, Jonathan, Yellow Transparent, Yellow Delicious, Lodi, Twenty Ounce and Summer Champion.

GRAPEVINES

1-yr.-old No. 1 plants,
20c each, \$15.00 per 100.

Concord, Fredonia, Catawba.

All the above trees and plants are first class in every way. 5 per cent discount for cash with order. Packing free on orders of \$10.00 or more. Shipped by Railway Express or motor freight, collect.

EAST'S NURSERY

P. O. Box 5 Amity, Ark.

PEACH TREES, 1-YEAR-OLD BUDS

Jumbo size, 60c; 5 to 6 ft., 50c;

4 to 5 ft., 45c; 3 to 4 ft., 35c.

Amber Gem, Belle of Georgia, Champion, Cardinal, Coronet, Dixigem, Dixired, Sullivan Early Elberta, Elberta, Fairhaven, Golden Jubilee, Halehaven, Jerseyland, J. H. Hale, July Elberta, July Heath, Indian Cling, Keystone, Late Elberta, Loring, Ranger, Yellowcap, Redglobe, Redhaven, Redskin, Richhaven, Shippers Late Red, Southland, Sunhaven, Sunhigh, Triogem, White Hale.

PEAR TREES, 1 AND 2-YEAR-OLD
5 to 6 ft., 75c; jumbo size, 80c;
4 to 5 ft., 60c; 3 to 4 ft., 40c.

Bartlett, Kieffer, Orient, Pineapple, Le Conte.

Write or phone for best prices on assorted SHADE TREES, including: thornless Honey Locust, Pin Oak, Sugar Maple, Silver Maple, Chinese Elm, Redbud and Sweet Gum, in many sizes and quantity lots, all nursery grown.

SHAHAN NURSERIES

Tullahoma, Tenn.

PEACH AND PRUNE TREES

Heavy rooted, well-graded trees from one of the finest blocks of nursery stock.

Stanley Prune, on Myrobalan, in 11/16-in., 9/16-in. and 7/16-in. grades.

Fairhaven, Elberta and Redhaven Peaches, in 9/16-in., 7/16-in. and 5/16-in. grades.

WHOLESALE PRICES.

Write for quotations. All stock subject to prior sale.

MOLTER'S MICHIGAN NURSERIES

1500 U. S. 12 Benton Harbor, Mich.

FRUIT TREES

PEACH TREES, Elberta, Belle of Georgia, Dixired, Indian Cling, Mayflower, Red Cap, Sullivan Early Elberta. All 12 to 18 ins. 12 1/2c each. Elberta, Belle of Georgia, 18 to 24 ins., 18c each; 2 to 3 ft., 25c. APPLE TREES, Red Delicious, Yellow Delicious, Yellow Transparent, 12 to 18 ins., 12 1/2c each. PURPLE-LEAVED PLUMS, Thundercloud, Newport, 12 to 18 ins., 15c each; 18 to 24 ins., 20c; 3 to 5 ft., 25c. FLOWERING PEACH, double red-flowering, pink-flowering (Helen Borchers), new red-leaved, 12 to 18 ins., 15c each; 18 to 24 ins., 20c; 2 to 3 ft., 25c. 3 per cent cash discount, March only.

GLOBE NURSERIES

Box 248 McMinnville, Tenn.

Budded and grafted Thomas Black Walnut trees, 2-yr., approximately the following: 30 to 3 ft., \$1.00 each; 95 to 4 ft., \$1.30 each; 110 to 5 ft., \$1.95 each; 100 to 6 ft., \$2.10 each; 30 to 5 ft., \$2.50 each. Cash with order earns 2 per cent discount; otherwise 25 per cent cash with order and balance before shipment. Packed free.

Harwell Nursery, Van Buren, Ark.

20,000 PEACH TREES
Offered in 7/16, 9/16, 11/16 and 1/2-in. cal., following varieties:

Ambergem Late Elberta
Belle of Georgia Mayflower
Cardinal Ranger
Coronet Red Cap
Dixigem Red Globe
Dixired Red Haven
Elberta Red Oso Gem
Early Red Fre Shipper's Red
Golden Jubilee Slappee
Halehaven South Haven
J. H. Hale Summercrest
Indian Sunhigh
Keystone Triogem

Send us your want list for special quantity prices. Also ask for complete wholesale catalog offering other fruits and ornamental plant material.

WAYNESBORO NURSERIES

Waynesboro, Va.

SURPLUS PEACH IN STORAGE

	18 to 24 ins.	2 to 3 ft.	3 to 4 ft.	4 to 5 ft.	5 to 6 ft.
Halehaven	200	280	45		
Golden Jubilee	125	150	55	11	
Elberta	325	450	600	150	
Henner Hale	175	300	375	175	
Diamond King	250	350	450	160	
Early Elberta	47	50			
Gage Elberta	24	92	75	20	
Champion	15	60	40		

EGYPTIAN NURSERY & LANDSCAPE CO.
Two miles north of Farina on Route 37
Farina, Ill.

WALNUT TREES

Thomas Black, budded,
7 to 8 ft., \$2.00 each,
8 to 10 ft., \$2.50 each.

In lots of 100 trees, deduct 10c per tree.

PIGGOTT NURSERY CO.

Piggott, Ark.

Supplies Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads

GARDEN ROOTS

RHUBARB ROOTS

Excellent stock that will please both you and your customers. Varieties: Victoria or Myatts Linneaus.

	2-in. and up.	25	100	250	1000
forcing grade	\$5.00	\$17.50	\$37.50	\$125.00	
1 1/2 to 2-in. caliper	3.00	10.00	23.75	90.00	
1 to 1 1/2-in. caliper	2.50	8.00	18.75	70.00	
3/4 to 1-in. caliper	2.25	6.50	15.00	55.00	

Immediate or later shipment as desired.

Free packing for cash with order.

BUNTINGS' NURSERIES, INC.

Box 3 Selbyville, Del.

ASPARAGUS ROOTS

We are the largest growers of Asparagus roots in America. The continued increase in demand indicates complete customer satisfaction.

MARY WASHINGTON ASPARAGUS

	25	100	250	1000
3-yr., No. 1 grade	\$1.50	\$5.00	\$10.00	\$35.00
2-yr., No. 1 grade	1.25	3.50	7.00	24.00
1-yr., No. 1 grade	1.00	2.50	5.00	16.00

Immediate or later shipment as desired.

Free packing for cash with order.

BUNTINGS' NURSERIES, INC.

Box 3 Selbyville, Del.

RED RHUBARB

Chipman's Canada Red Rhubarb,

No. 1 divisions, \$25.00 per 100.

50 at 100 rate.

VAN DE MOORTELL
PERENNIAL GARDENS
7250 1 1/2 Mile Rd. Utica, Mich.

ASPARAGUS MARY WASHINGTON

2-yr.-old bedded plants,

\$12.50 per 1000.

F.O.B. Cash.

FELIX MCKEIVICH

Route 2 Scottville, Mich.

CHIPMAN'S CANADA RED RHUBARB

First-class, freshly cut divisions,

\$28.00 per 100, \$250.00 per 1000.

Inquire for large quantity prices.

Can ship any time.

C. D. WRIGHT, HAMBURG, IA.

CANADA RED RHUBARB

(Chipman's strain.)

Macdonald Red and Victoria.

Good No. 1 divisions.

Spring or Fall delivery.

Wholesale only. Write

CHAPMAN'S BERRY FARM

East Leroy, Mich.

AMERICAN NURSERYMAN

MARCH

HARDY

GRAPEVINES

Strong fibrous root system with heavy tops. Our Grapevines will please the most discriminating type of buyer.

	Per 10	Per 100
Concord, blue	\$2.50	\$22.50
3-yr., No. 1	2.00	18.00
2-yr., No. 1	1.75	12.00
1-yr., No. 1		

Catawba, red
Fredonia, black
Niagara, white
Warden, black

	2.75	25.00
3-yr., No. 1	2.75	25.00
2-yr., No. 1	2.25	18.00
1-yr., No. 1	1.85	14.00

Immediate or later shipment as desired. Free packing for cash with order.

BUNTINGS' NURSERIES, INC.

Box 3 Selbyville, Del.

BRONZE SCUPPERNONG

Each, 10c

5000 2-yr., heavy

1000 3-yr., heavy

No charge for packing. Ask for special prices in 1000 lots.

GILMORE PLANT & BULB CO.

Julian, N. C.

GROUND COVERS

Per 100

Ajuga genevensis

Ajuga, red-leaved

Vinca minor, variegated

Pachysandra

Euonymus vegetus, 2-yr.

Euonymus vegetus, 3-yr.

Euonymus coloratus erectus, 2-yr.

Euonymus coloratus, 3-yr.

3-yr.

12 to 15 ins., T.

15 to 18 ins., T.

18 to 24 ins., T.

Euonymus coloratus, 2-yr.

Euonymus coloratus, 3-yr.

Euonymus Berryhill, 2-yr.

Euonymus Berryhill, 10 to 12 ins., T.

Euonymus Berryhill, 12 to 15 ins., T.

Terms: Cash with order, please. No packing charges.

HOPPERTON NURSERY

P. O. Box 65 Naperville, Ill.

MYRTLE

Excellent plants from field-grown clumps,

shipped in peat moss, \$3.50 per 100, \$30.00

per 1000; pot-grown plants, 3-in. peat pots,

\$16.50 per 100, \$150.00 per 1000.

PACHYSANDRAS

1-yr. plants, \$4.50 per 100, \$40.00 per 1000;

2 1/2-in., pot-grown, \$10.50 per 100, \$95.00 per

1000.

All inquiries answered immediately.

All orders shipped promptly.

BIRCH HILL NURSERY

Lower Cross Road Greenwich, Conn.

Phone Normandy 1-9212

HARDY MYRTLE (VINCA MINOR)

Common Periwinkle.

Heavy canes, freshly dug, 15 to 25 large

canes; clumps, \$50.00 per 1000.

Honeycreeper, Hall's halliana, 3-yr., branch-

ed, \$45.00 per 1000.

English Ivy, large-leaved, Scottish strain;

rooted cuttings, \$50.00 per 1000.

Boston or Engelmann's Ivy, \$50.00 per 1000.

Euonymus coloratus, 1-yr., rooted cuttings,

\$57.00 per 1000.

H. C. WAUGH

Box 41, Upper River Rd. Gallipolis, O.

Hardy Myrtle (Vinca minor), plants with

20 leads or more and good roots, \$5.00 per

100, \$45.00 per 1000. Pachysandra, sand-

rooted cuttings, \$40.00 per 1000. English Ivy,

sand-rooted cuttings, \$40.00 per 1000. Cash.

Samuel I. Minder, 305 Euclid Ave., Lan-

caster, Pa.

HARDY PLANTS

FIELD-GROWN PERENNIALS

Each

75 Astilbe Avalanche

200 Astilbe Gloria

300 Astilbe Peach Blossom

100 Astilbe Queen Alexandra

275 Delphinium Pacific Hybrids

250 Delphinium Lyondell Hybrids

75 Delphinium Sapphire Hybrids

100 Geum Mrs. Bradshaw

150 Gypsophila Bristol Fairy

50 Hemerocallis Kwanso flore-pleno

50 Hemerocallis Killarney Lass

50 Hemerocallis Lipstick

50 Hemerocallis Purple Elf

100 Heuchera Oakeshaw Jewel

110 Heuchera Rosamundi

50 Heuchera Snowflake

Packing at cost.

THE CAPE COD NURSERIES

H. V. Lawrence, Inc.

Falmouth, Mass.

HARDY FIELD-GROWN PERENNIALS

We specialize in new and unusual varieties.

Send for our new wholesale list.

RIDENOUR'S FLOWER FARM

1024 W. Chicago Rd. Allen, Mich.

WELLERS BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

HARDY FIELD-GROWN PERENNIALS

Aquilegias, 7 separate colors; Arabis, Asclepias tuberosa, Astilbes, Aubrietas, Campanulas, Carnations, Chives, Dianthus, Digitalis, Gaillardias, Geums, Lavender, Liatris, Russel Lupines, Lythrum, Myosotis, Phlox scabellata, 15 varieties; Platycodons, Primulas, Pyrethrum Daisies, Shasta Daisy, Easter Read, Sedums, 10 varieties; Sweet Williams, Thymes, Tritomas, Trollius, Veronicas, Violas and Violets.

If you haven't received our list, send for it now.

All plants freshly dug for each order.

Orders taken now for spring delivery.

Shipping date, after March 15.

GEORGE FRANK & SON

Penfield, N. Y.

STRONG FIELD-GROWN PERENNIALS

(25 plants at 100 rate.) Per 100

NEW DWARF OREGON-PACIFIC ASTERS

Canterbury Carpet, Canterbury.

Per 100: height 8 ins. \$20.00

Persian Rose, rose tint; 15 ins. 20.00

Pink Bouquet, clear pink; 10 ins. 20.00

Snowball, white; 12 ins. 20.00

AQUILEGIA McKana Hybrids 18.00

GAILLARDIA Goblin (bicolor) 15.00

LIASTRIS September Glory 18.00

OENOTHERA missouriensis 18.00

PLATYCODON mariesii, blue 15.00

PLATYCODON grandiflorum, shell-pink 15.00

Cash with order. F.O.B. Canby, Ore.

CASCADE GARDENS

Route 1, Box 509 Canby, Ore.

HARDY PLANTS

TRANSPLANTED, field-grown stock of good size and quality.

Per 100

AQUILEGIAS, Mrs. Scott Elliott's... \$ 7.00

Crimson Star 10.00

CAMPANULAS (Cup-and-Saucer), in blue, pink, white or red 7.00

GAILLARDIA Grenadin, in yellow, dark red, scarlet or mixed 7.00

SHASTA DAISY Alaska 7.00

SHASTA DAISY Giant Double 10.00

CUSHION MUMS, field-grown clumps, in red, pink, yellow or bronze 12.00

NORTH POLE NURSERY

Cornucopia, Wis.

HARDY PERENNIALS

Strong 1 and 2-yr.

Our new spring list is now ready.

Phlox, Creeping Phlox, Delphiniums, Chrysanthemums, Columbine, Iberis, Lavenders, Canterbury Bells, Sweet Williams, Platycodons, Gaillardias, Hollyhocks, Foxgloves, Daisies, Artemisia Silver King, Carnations, Coreopsis, Gypsophila, Hibiscus, hardy Sweet Peas, Tritomas and many others. Write for complete list.

HENRY LE POIRE

Route 2 Zeeland, Mich.

SPECIALIZING IN PERENNIALS

We grow over 500,000, strong field-grown plants.

Send for our spring 1958 catalog.

SPRINGBROOK GARDENS, INC.

Dept. A-10 Mentor, O.

IBERIS

Sempervirens, fine 2-yr. plants, \$2.20 per 10.

Snowflake, 2-yr. plants, \$2.50 per 10, \$22.00 per 100, \$210.00 per 1000.

PITZONKA'S PANTRY FARM & NURSERY

Bristol, Pa.

BLEEDING HEARTS

spectabilis, 2 to 3-yr., \$35.00; 4 to 8-yr., \$45.00 per 100, F.O.B. Battle Creek.

VERONA GARDENS

Route 5 Battle Creek, Mich.

HARDY FERNS (DORMANT ROOTS)

\$10.00 per 100, \$75.00 per 1000.

Ostrich, Clayton, Lady and Maidenhair.

STRAND NURSERY CO.

Taylor Falls, Minn.

America's best source for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

HARDY PLANTS

Write for latest price list.

VAN ENGEL'S

KALAMAZOO GARDENS NURSERY

208 Richard Ave. Kalamazoo, Mich.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorestown, N. J.

9,500 Active Nurserymen are in need of stock.

List your offerings in the American Nurseryman Classified Section.

HELLEBORUS

HELLEBORUS NIGER

(Christmas Rose)

2-yr. transplants, blooming size.

Suitable to pot up for sales on roadside stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

C. HOOGENDOORN

Turn Rd. Newport, R. I.

HOLLY**ILEX**

Strong, healthy 2 1/2-in. pot-grown, in sterilized soil. Well established. Satisfaction guaranteed.

Per 100

Ilex cornuta burfordi \$12.50

Ilex cornuta femina (3-in. pots) 20.00

Ilex crenata helieri 17.50

Ilex crenata rotundifolia 15.00

Ilex opaca East Palatka 20.00

Ilex opaca femina 20.00

Ilex opaca fosteri 20.00

Ilex vomitoria nana (dwarf Yaupon) .. 20.00

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

HOLLY NAMED VARIETIES

All 1-yr. bed-grown liners of exceptional quality. Very heavy root system. Ideal for field planting.

Aquifolium: J. G. Esson, pyramidalis compacta, Royal Purple, Zimmerman No. 1 and No. 2.

Opaca: Cardinal, Excelsior, M. Farago, Matawan, Mr. Heavy Berry, M. Muller's No. 1 and No. 2, Old Heavy Berry, Rumson and Xanthocarpa.

Royal Purple and O.H.B. \$30.00 per 100.

All other varieties, \$50.00 per 100.

JAMES S. WELLS NURSERY

P. O. Box 141 Red Bank, N. J.

ILEX, ROOTED CUTTINGS

From our own northern Ohio stock plants.

Aquifolium, female \$17.50 per 100

Aquifolium, male 17.50 per 100

Crenata helix 9.00 per 100

1-YR. BEDDED STOCK

Aquifolium, female 25.00 per 100

Aquifolium, male 25.00 per 100

2-YR. BEDDED STOCK

Crenata rotundifolia 20.00 per 100

MAHLSTEDE BROS.

5323-5351 Union Mills Rd. Cleveland 24, O.

AMERICAN HOLLY

(Ilex opaca femina)

Grown from trees selected for excellent foliage and heavy fruiting ability. Heavy liners that will grow into salable plants quicker.

2-yr.-old, in 2 1/2-in. rose pots, 6 to 12 ins., \$25.00 per 100.

Male plants available at same price.

WARREN AND SON NURSERY

Rt. 11, Box 512 Oklahoma City 10, Okla.

ILEX AQUIFOLIUM

Hardy, northern English Hollies growing near our nursery provide the transplanted cuttings we offer.

Cuttings, well established in 2 1/2-in. bands (equal to 3-in. pots), flat of 40, for \$18.50.

Free packing and 5 per cent discount for cash with order. Personal inspection invited.

LEHIGH VALLEY NURSERIES, INC.

1745 Linden St. Bethlehem, Pa.

AMERICAN HOLLY

Hardest of the best named varieties.

4 to 6 ins., 3-in. pots, 42c each, per 100.

8 to 15 ins., 1 gal. plantainers, \$1.15.

A few larger to 4 ft.

BLAKE'S HOLLY NURSERY

Saddle River, N. J.

Phone Davis 7-1461

HOLLIES

Virginia, Carolinas and Georgia nurserymen: Ilex, rotundifolia and burfordi; also Nandinas.

2-yr., bed-grown liners for immediate shipment, \$125.00 per 1000, \$15.00 per 100. Prefer to ship Railway Express.

EASLEY NURSERY

Route 3 Easley, S. C.

Phone Greenville, S. C., Cedar 2-0294.

ILEX OPACA

Named varieties, four years in field.

2 to 3 ft., B&B \$ 5.00

3 to 4 ft., B&B 7.50

4 to 5 ft., B&B 10.00

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone 489-3

ILEX OPACA

SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK.

Write for price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

HOLLY LINERS

Ilex opaca femina, 3-in. pots, 40c.

These plants rooted from northern type Hollies, selected with special attention to foliage color, berry quantity and quality.

DONALD J. HILLENMEYER

1550 Meadowthorpe Ave. Lexington, Ky.

ILEX CRENATA ROTUNDIFOLIA

8 to 10 ins. 9c

10 to 15 ins. 12c

2-yr., open lath beds. All are green.

E. F. FONDER

308 6th Ave. S. Lanett, Ala.

MAY WE QUOTE YOU ON OUR

BETTER OREGON HOLLIES

Skimmia Japonica, general nursery stock.

ALFRED TEUFEL, WHOLESALE GROWER

11414 N.W. Cornell Rd. Portland, Ore.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

HONEYSUCKLES**HONEYSUCKLES**

Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants, 2, 4, 6 to 8 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone: OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

IVIES**IVIES, ROOTED CUTTINGS**

Ready now and later.

Per 100 Per 1000

Hedera baltica, true stock... \$6.50 \$60.00

Hedera helix, true English... 6.00 55.00

2 1/2-in. pots of either above, \$15.00 per 100.

Free packing. Cash with order.

BABCOCK GARDENS

Route 3 Jamestown, N. Y.

BALTIC IVY

Hardest Ivy. Fine for wall or ground cover. True stock. Well rooted plants, 2 to 12-in. vines. Per 100 Per 1000

2-in. pots \$12.50 \$115.00

2 1/2-in. pots, 1-yr. 20.00 190.00

STRATFORD GARDENS

Russell Breece, Mtd. Rt. 9 Delaware, O.

HEDERA HELIX, TRUE ENGLISH IVY

Bushy, clean stock, pot-grown, well-rooted.

2 1/2-in. pots (2 plants per pot), \$12.00 per 100.

Sample sent on request.

THE EDWARD LEHDE NURSERIES

88 French Rd. (Gardenville) Buffalo 24, N. Y.

ENGLISH IVY

Large-leaved, Boston and climbing rock, rooted cuttings, any quantity, \$50.00 per 1000.

IVY DALE NURSERY

R. R. 1 Gallipolis, O.

LAWN GRASS AND SEED**LAWN SEED**

Wholesale prices. F.O.B. New York.

50 lbs. 100 lbs.

Sunny Best Mixture with \$46.00 \$86.00

Merion Blue Grass 28.00 50.00

Landscape Gardeners' Mixture 31.00 56.00

Cemetery Mixture 27.00 47.00

Shady Best Mixture 27.00 47.00

300 lbs. or more shipped freight paid.

Write for complete list showing contents of above and other formulas and current prices for individual grasses.

HERBERT BROTHERS

SEEDSMEN, INC.

678 Broadway New York 12, N. Y.

"PURE KY." BLUE GRASS LAWN SEED

Every seed known to be grown right here in the heart of the blue grass section of Ky.

Still the best foundation to count on.

100 lbs., \$50.00; 50 lbs., \$26.50; 25 lbs., \$15.00; 10 lbs., \$7.00. All F.O.B. here, subject change and unload.

WALNUT LAWN FARM

Route 2 Lexington, Ky.

For 116 years.

Lawn Grass, Meyer (Z-52) Zoysia, Emerald Zoysia, Zoysia Matrella and Tifdawn 57, Tiflone 127, Tifgreen 328. Wholesale prices.

Any quantity, Sample package, enough to plant 500 sq. ft., \$5.00 each, prepaid. Planting instructions included. Send check with order. Merry Grass Nursery, Dept. H, Box 2176, Spring Hill Sta., Mobile, Ala. Garden 6-1715.

LILACS**FRENCH LILACS**

Per 10 Per 100

3 to 4 ft. \$1.10 \$10.00

2 to 3 ft.85 .75

18 to 24 ins.55 .50

12 to 18 ins. 12-24 12-18

ft. ft. ft. ft. ft. ft.

Pres. Grevy 210 114 35 8

Chas. Joly 168 140 114 68

Paul Thirion 25 52 30 14

Miss Ellen Whitcomb 7 27 20 80

Belle de Nancy 40 28 4 ..

LINING-OUT STOCK—Continued

LINING-OUT STOCK	
We specialize in growing the finest in lining-out stock and guarantee satisfaction from these strong, healthy, bed-grown liners. They are all grown in sterilized soil and have excellent fibrous roots.	
	Per 100
BUXUS HARLANDI	
BUXUS JAPONICA	
4 to 6 ins.	\$ 8.50
6 to 8 ins.	10.00
CLEYERA JAPONICA	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
EUONYMUS PATENS	
8 to 12 ins.	12.50
GARDENIA FORTUNEI	
GARDENIA MYSTERY	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
GARDENIA RADICANS	
(8 to 12 ins. only)	
GARDENIA STRICTA NANA	
8 to 12 ins.	12.50
12 to 18 ins.	15.00
ILEX CASSINE ANGUSTIFOLIA	
8 to 10 ins.	15.00
10 to 15 ins.	17.50
ILEX CORNUTA BURFORDI	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
12 to 18 ins., 2-yr. heavy	20.00
ILEX CRENATA CONVEXA	
6 to 8 ins.	12.50
8 to 10 ins.	15.00
10 to 15 ins.	20.00
ILEX CRENATA ROTUNDIFOLIA	
6 to 8 ins.	10.00
8 to 10 ins.	12.50
10 to 15 ins.	15.00
2-yr. heavy liners	20.00
well-rooted cuttings	5.00
ILEX OPACA EAST PALATKA	
ILEX OPACA FEMINA	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
12 to 18 ins.	17.50
ILEX OPACA FOSTERI	
8 to 12 ins.	15.00
ILEX VOMITORIA FEMINA	
6 to 8 ins.	12.50
LIGUSTRUM LUCIDUM COMPACTUM	
well-rooted cuttings	3.00
\$25.00 per 1000	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
MAGNOLIA FUSCATA	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
MAGNOLIA SOULANGEANA	
18 to 24 ins. (2-yr.)	40.00
2 to 3 ft. (2-yr.)	50.00
NANDINA DOMESTICA	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins. (frustrans only)	15.00
PHOTINIA GLABRA	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
PITTOSPORUM TOBIRA	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
PYRACANTHA CHINENSIS	
SERRATA GRABER	
PYRACANTHA COCCINEA	
LALANDI	
12 to 18 ins.	15.00
CONIFERS	
	Per 100
CEDRUS DEODARA	
8 to 12 ins.	\$15.00
12 to 18 ins.	17.50
JUNIPERUS CHINENSIS	
FEMINA (SYLVESTRIS)	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
JUNIPERUS CHINENSIS	
GLAUCA HETZI	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
JUNIPERUS CHINENSIS	
PFTZERIANA	
6 to 8 ins.	17.50
8 to 12 ins.	20.00
JUNIPERUS CHINENSIS	
PYRAMIDALIS (SPINY GREEK)	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
JUNIPERUS HORIZONTALIS	
FLUMOSA (ANDORRA)	
8 to 12 ins.	17.50
PODOCARPUS SINENSIS	
6 to 8 ins.	10.00
8 to 12 ins.	15.00

See our separate listing this issue for potted liners. Wholesale catalog sent free upon request.

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

HARDY LIVE OAK
Hardy native Evergreen tree.
Will grow in almost any type soil.
Will stand 15 below zero.
6 to 12-in. seedlings, \$15.00 per 100.
Grown in sandy soil with excellent roots.
WARREN ANSON NURSERY
R. 11, Box 512 Oklahoma City 10, Okla.

ROOTED CUTTINGS FROM SAND.

	100	1000
Ilex convexa	\$ 9.00	\$ 80.00
Ilex rotundifolia	9.00	80.00
Ilex hetzi	11.00	100.00
Juniperus pfitzeriana	11.00	100.00
Juniperus hetzi	11.00	100.00
Taxus andersonii	11.00	100.00
Taxus Adams capitata	15.00	125.00
Taxus cuspidata	15.00	125.00
Taxus cuspidata leaders	15.00	125.00
Taxus brownii	11.00	100.00
Taxus brevifolia	15.00	125.00
Taxus cuspidata	10.00	80.00
Taxus hickii	11.00	100.00
Taxus canadensis stricta	11.00	100.00
Taxus hatfieldii	11.00	100.00
Taxus hunnewelliana	11.00	100.00
Taxus ovata	11.00	100.00
Taxus intermedia	11.00	100.00
Taxus Moon's columnaris	15.00	125.00
Taxus vermeulenii	11.00	100.00
Taxus kelseyi	11.00	100.00
Taxus densiformis	15.00	125.00
Taxus repandens	15.00	125.00
Taxus thayerae	11.00	100.00
Taxus Halloran	15.00	125.00
Taxus henryi	15.00	125.00
Taxus wardii	15.00	125.00

1-YEAR OPEN BEDDED	
Ilex convexa	\$20.00
Ilex rotundifolia	20.00
Ilex hetzi	20.00
Juniperus pfitzeriana	20.00
Juniperus hetzi	20.00
Taxus andersonii	20.00
Taxus cuspidata	17.50
Taxus brownii	17.50
Taxus hatfieldii	17.50
Taxus hunnewelliana	17.50
Taxus intermedia	17.50
Taxus vermeulenii	17.50
Taxus hickii	17.50
Taxus canadensis stricta	17.50

SEEDLINGS AND TRANSPLANTS	
Acer pal. atropurpureum	\$15.00
1-yr. seedlings	\$125.00
Abies concolor, 2-yr. seedlings	7.00
Abies douglasii, 2-yr. seedlings	4.00
Abies douglasii, 3-yr. seedlings	6.00
Abies fraseri, 2-yr. seedlings	7.00
Abies pectinata, 2-yr. seedlings	9.00
Abies pectinata, 3-yr. seedlings	3.50
Cornus florida	
1-yr. seedlings, No. 1	6.00
1-yr. seedlings, No. 2	5.00
2-yr. seedlings, No. 1	4.00
2-yr. seedlings, No. 2	12.50
2-yr. transpl., No. 1	10.00
2-yr. transpl., No. 2	15.00
2-yr. transpl., No. 1	15.00
2-yr. transpl., No. 2	11.00
Euonymus alatus seedlings	15.00
alatus comp. seedlings	15.00
2-yr. transplants	15.00
Ilex opaca, 1-yr. seedlings	6.00
2-yr. seedlings	11.00
Taxus canadensis, 4 to 6 ins.	9.00
6 to 8 ins., 3-yr. transplants	16.00
8 to 12 ins., 4-yr. transplants	27.50
Abies, 1-yr. seedlings	10.00
Abies, 2-yr. seedlings	8.00
Abies, 3-yr. seedlings	2.50
Abies, 4-yr. seedlings	3.50
Abies, 5-yr. seedlings	3.50
Abies, 6-yr. seedlings	3.50
Abies, 7-yr. seedlings	3.50
Abies, 8-yr. seedlings	3.50
Abies, 9-yr. seedlings	3.50
Abies, 10-yr. seedlings	3.50
Abies, 11-yr. seedlings	3.50
Abies, 12-yr. seedlings	3.50
Abies, 13-yr. seedlings	3.50
Abies, 14-yr. seedlings	3.50
Abies, 15-yr. seedlings	3.50
Abies, 16-yr. seedlings	3.50
Abies, 17-yr. seedlings	3.50
Abies, 18-yr. seedlings	3.50
Abies, 19-yr. seedlings	3.50
Abies, 20-yr. seedlings	3.50
Abies, 21-yr. seedlings	3.50
Abies, 22-yr. seedlings	3.50
Abies, 23-yr. seedlings	3.50
Abies, 24-yr. seedlings	3.50
Abies, 25-yr. seedlings	3.50
Abies, 26-yr. seedlings	3.50
Abies, 27-yr. seedlings	3.50
Abies, 28-yr. seedlings	3.50
Abies, 29-yr. seedlings	3.50
Abies, 30-yr. seedlings	3.50
Abies, 31-yr. seedlings	3.50
Abies, 32-yr. seedlings	3.50
Abies, 33-yr. seedlings	3.50
Abies, 34-yr. seedlings	3.50
Abies, 35-yr. seedlings	3.50
Abies, 36-yr. seedlings	3.50
Abies, 37-yr. seedlings	3.50
Abies, 38-yr. seedlings	3.50
Abies, 39-yr. seedlings	3.50
Abies, 40-yr. seedlings	3.50
Abies, 41-yr. seedlings	3.50
Abies, 42-yr. seedlings	3.50
Abies, 43-yr. seedlings	3.50
Abies, 44-yr. seedlings	3.50
Abies, 45-yr. seedlings	3.50
Abies, 46-yr. seedlings	3.50
Abies, 47-yr. seedlings	3.50
Abies, 48-yr. seedlings	3.50
Abies, 49-yr. seedlings	3.50
Abies, 50-yr. seedlings	3.50
Abies, 51-yr. seedlings	3.50
Abies, 52-yr. seedlings	3.50
Abies, 53-yr. seedlings	3.50
Abies, 54-yr. seedlings	3.50
Abies, 55-yr. seedlings	3.50
Abies, 56-yr. seedlings	3.50
Abies, 57-yr. seedlings	3.50
Abies, 58-yr. seedlings	3.50
Abies, 59-yr. seedlings	3.50
Abies, 60-yr. seedlings	3.50
Abies, 61-yr. seedlings	3.50
Abies, 62-yr. seedlings	3.50
Abies, 63-yr. seedlings	3.50
Abies, 64-yr. seedlings	3.50
Abies, 65-yr. seedlings	3.50
Abies, 66-yr. seedlings	3.50
Abies, 67-yr. seedlings	3.50
Abies, 68-yr. seedlings	3.50
Abies, 69-yr. seedlings	3.50
Abies, 70-yr. seedlings	3.50
Abies, 71-yr. seedlings	3.50
Abies, 72-yr. seedlings	3.50
Abies, 73-yr. seedlings	3.50
Abies, 74-yr. seedlings	3.50
Abies, 75-yr. seedlings	3.50
Abies, 76-yr. seedlings	3.50
Abies, 77-yr. seedlings	3.50
Abies, 78-yr. seedlings	3.50
Abies, 79-yr. seedlings	3.50
Abies, 80-yr. seedlings	3.50
Abies, 81-yr. seedlings	3.50
Abies, 82-yr. seedlings	3.50
Abies, 83-yr. seedlings	3.50
Abies, 84-yr. seedlings	3.50
Abies, 85-yr. seedlings	3.50
Abies, 86-yr. seedlings	3.50
Abies, 87-yr. seedlings	3.50
Abies, 88-yr. seedlings	3.50
Abies, 89-yr. seedlings	3.50
Abies, 90-yr. seedlings	3.50
Abies, 91-yr. seedlings	3.50
Abies, 92-yr. seedlings	3.50
Abies, 93-yr. seedlings	3.50
Abies, 94-yr. seedlings	3.50
Abies, 95-yr. seedlings	3.50
Abies, 96-yr. seedlings	3.50
Abies, 97-yr. seedlings	3.50
Abies, 98-yr. seedlings	3.50
Abies, 99-yr. seedlings	3.50
Abies, 100-yr. seedlings	3.50

Full list of liners on request. Special prices on large orders.

VERKADE'S NURSERIES, WAYNE, N. J.

SPECIAL LINING-OUT STOCK

	Each	100
Abelia grandiflora, 6 to 8 ins.		
bed-grown	10c	
Abelia grandiflora, 2 1/2-in. pots	15c	
Ilex burfordii, 2 1/2-in. pots	17 1/2c	
Ilex rotundifolia, 3-in. pots	20c	
Ilex cassine, 3-in. pots	15c	
Ligustrum lucidum, 3-in. pots	17 1/2c	
Ligustrum japonicum, 6 to 8 ins.		
bed-grown	6c	
Ligustrum japonicum, 8 to 12 ins.	10c	
bed-grown	10c	
Ligustrum japonicum, 12 to 18 ins.	15c	
bed-grown	15c	
Ligustrum japonicum, 2 1/2-in. pots	15c	
Magnolia grandiflora, 6 to 8 ins.		
bed-grown	10c	
Magnolia grandiflora, 8 to 10 ins.	15c	
bed-grown	15c	
Magnolia grandiflora, 10 to 12 ins.	20c	
bed-grown	20c	
Magnolia grandiflora, 12 to 18 ins.	25c	
bed-grown	25c	
Magnolia grandiflora, 3-in. pots	17 1/2c	
Nandina, 4 to 6 ins., bed-grown	6c	
Nandina, 6 to 8 ins., bed-grown	10c	
Nandina, 2 1/2-in. pots	15c	
Catalpa speciosa, 12 to 18 ins.		
bed-grown	2 1/2c	
Catalpa speciosa, 18 to 24 ins.		
bed-grown	3 1/2c	

Write for list of finished stock. No charge for packing. Cash with order or C.O.D.
GILMORE PLANT & BULB CO.
Julian, N. C.

GRAFTED STOCK BEDDED OUT IN THE OPEN FOR 1 YEAR.

	Per 100
Abies nobilis glauca	\$125.00
Acer pal. atropurpureum	90.00
Carpinus fastigiata	75.00
Cornus florida flore-plena	60.00
Cornus florida rubra	60.00
Cornus florida rubra Prosser	60.00
Hamamelis brevipedata	100.00
Hamamelis mollis	60.00
Ilex Old Heavy Berry	150.00
Magnolia, Waterlily	90.00
Magnolia stellata	90.00
Magnolia stellata rubra	90.00
Magnolia soulangiana nigra	90.00
Retinospora obtusa crippa	75.00
Retinospora obtusa gracilis	75.00
Retinospora obtusa nana gracilis	75.00
Viburnum carlesii	65.00
Viburnum burkwoodii	65.00
ROOT GRAFTS	Per 100
Malus Almey	\$20.00
Kwanan and Weeping Cherry	20.00
IMPORT FROM HOLLAND	
IN THE SPRING.	

Understocks are potted up during the early spring, carried over outside in frames during the summer, then grafted during the winter which furnishes the best results for planting.

	Per 100	Per 1000
Abies nobilis glauca	\$100.00	
Abies pinsapo glauca	100.00	
Acer pal. atropurpureum	75.00	
Acer dissectum	75.00	
Acer dissectum atropurpureum	75.00	
Carpinus betulus fastigiata	60.00	
Cedrus atlantica aurea	100.00	
Cedrus atlantica glauca	75.00	
Cornus florida rubra	50.00	
Cornus florida rubra Prosser	65.00	
Cornus florida pendula	60.00	
Cornus florida weichi var.	65.00	
Cornus florida flore-plena	60.00	
Cornus florida rubra, root grafts	35.00	
Cornus kousa chinensis	60.00	
Cornus kousa speciosa	60.00	
Hamamelis mollis	60.00	
Fagus sylvatica pendula	60.00	
Fagus sylvatica heterophylla	60.00	
Fagus sylvatica fastigiata	60.00	
Fagus sylvatica tricolor	75.00	
Magnolia stellata	75.00	
Magnolia stellata rubra	75.00	
Magnolia stellata Waterlily	75.00	
Magnolia parviflora	75.00	
Magnolia yulan	75.00	
Magnolia cordata	75.00	
Picea moerhousii	100.00	
Pinus pung. gl. 2-yr. grafts	125.00	
Pinus strobus pendula	60.00	
Pinus strobus nana	60.00	
Pinus strobus fastigiata	60.00	
Pinus parviflora glauca	60.00	
Pinus cembra	60.00	
Pinus watereri glauca	60.00	
Pinus Tanyosho	60.00	
Retinospora obtusa gracilis	60.00	
Retinospora obtusa gracilis nana	60.00	
Retinospora obtusa crissal	60.00	
Viburnum carlesii	60.00	
Viburnum burkwoodii	60.00	
Viburnum fuddii	60.00	

Special prices on large quantities.

VERKADE'S NURSERIES, WAYNE, N. J.

LINING-OUT STOCK

<i>Acer palmatum atropurpureum</i> (Red Japanese Maple), 12 to 18 ins. strong 2-yr. grafts.....	\$1.75	\$1.50
<i>Cornus florida rubra</i> (Flowering Dogwood), 1-yr. strong grafts, 18 to 24 ins.....	.75	.70
<i>Cotoneaster divaricata</i> , 2-yr. transplants, branched, 12 to 18 ins. ....	.30	.25
<i>Exochorda wilsoni</i> (Pearlbush), 2-yr. grafts, 18 to 24 ins., from field rows.....	.75	.60
<i>Foraythia Spring Glory</i> , 1-yr. transplants, softwood cut- tings, 18 to 24 ins., well- branched, mail order else.....	.18	.15
<i>Juniperus heteri</i> , 2-yr. trans- plants.....	.40	.25
<i>Pachistima canbyi</i> , 2-yr. trans- plants.....	.50	.45
<i>Prunus tomentosum</i> (Nanking Cherry), strong 1-yr. seed- lings.....	.10	.07½
<i>Pseudotsuga taxifolia glauca</i> (Blue Douglas Fir), 4-yr. transplants.....	.40	.35
<i>Taxus capitata</i> , strong 2-yr. selected seedlings, 4 to 6 ins.	.15	.12½
<i>Taxus thayerae</i> , 2-yr. transplants	.45	.40
<i>Viburnum carlesii</i> , 2-yr. seed- lings, 4 to 6 ins.....	.15	.12½
<i>Viburnum carlesii</i> , 3-yr. seed- lings, 6 to 12 ins.....	.20	.17½
<i>Viburnum carlesii</i> , 2-yr. seed- lings, 8 to 12 ins.....	.30	.25
<i>Viburnum tomentosum</i> (true), 1-yr. transplants, softwood cuttings.....	.25	.20
<i>Viburnum wrightii</i> , 2-yr. grafts, field rows.....	.75	.60
C. HOOGENDOORN NURSERIES		
Turner Rd.,	Newport,	R. 1

SPRING 1958

LINING-OUT STOCK

Per 100 Per 1000

1,375	Acer ginnala (Amur Maple), 1-yr. seedlings, 6 to 9 ins.	7.00	\$ 60.00
1,350	Acer ginnala (Amur Maple), 1-yr. seedlings, 9 to 12 ins.	8.00	70.00
2,000	Acer palmatum atropurpureum, 1-yr. gr., beds, 6 to 9 ins.	90.00	\$50.00
1,500	Acer palmatum atropurpureum, 3-yr. TT, fr., 12 to 15 ins.	150.00	1400.00
9,000	Acer platanoides, 1-yr. seedlings, 4 to 6 ins.	5.00	40.00
19,000	Acer platanoides, 1-yr. seedlings, 6 to 9 ins.	6.00	50.00
11,000	Acer platanoides, 1-yr. seedlings, 9 to 12 ins.	7.00	60.00
5,000	Acer platanoides, 2-yr. T, fr., 18 to 24 ins.	15.00	140.00
4,500	Acer pseudoplatanus, 2-yr. T, fr.	15.00	140.00
12,000	Althaea, 1-yr. seedlings, 18 to 24 ins.	5.50	45.00
10,000	Azalea hinodogiri, 2-yr. T, beds, 4 to 6 ins.	50.00	450.00
5,000	Azalea hinodogiri, 3-yr. T, beds, 8 to 9 ins.	65.00	600.00
40,000	Berberis thunbergii, 2-yr. T, fr., 9 to 12 ins., heavy	8.50	75.00
65,000	Berberis thunbergii atropurpurea, 2-yr. T, fr., 9 to 12 ins., heavy	9.50	85.00
7,000	Cydonia japonica, 2-yr. T, fr., 12 to 18 ins.	10.00	95.00
7,000	Euonymus vegetus, 2-yr. T, fr.	30.00	250.00
30,000	Fagus sylvatica, 1-yr. seedlings, 4 to 6 ins.	8.00	70.00
21,000	Fagus sylvatica, 1-yr. seedlings, 6 to 9 ins.	9.50	85.00
1,000	Hydrangea P.G., 2-yr. T, fr., 12 to 15 ins.	30.00	250.00
2,400	Sorbus aucuparia, 1-yr. seedlings, 9 to 12 ins.	7.00	60.00
2,700	Sorbus aucuparia, 2-yr. T, fr., 18 to 24 ins.	20.00	180.00
3,700	Taxus thayeri, 3-yr. T, beds	45.00	400.00
3,300	Tilia cordata, 1-yr. seedlings, 4 to 6 ins.	8.50	80.00
1,600	Tilia cordata, 1-yr. seedlings, 12 to 15 ins.	10.00	95.00
5,500	Viburnum dilatatum, 1-yr. seedlings, 9 to 12 ins.	7.00	60.00
2,000	Weigela, var. 'Vaniceki', 2-yr., 18 to 24 ins.	35.00	300.00
4,500	Wistaria sinensis, 1-yr. seedlings	5.50	45.00
10,000	Zelkova serrata (subs. for American Elm), 2-yr. T, fr., 12 to 15 ins. (not subject to Dutch Elm disease)	20.00	180.00

Packing extra.

BOULEVARD NURSERIES

Newport, R. I.

HEAVY LINERS FROM FIELD BEDS

Per 100

Taxus cuspidata, 12 to 15 ins., 4-yr.	TTT.	65.00
18 to 12 ins., 3-yr. TT.		50.00
8 to 10 ins., 2-yr. T.		40.00
Taxus capitata, 10 to 12 ins., 3-yr. TT.		50.00
8 to 10 ins., 2-yr. T.		40.00
Taxus hicksii, 8 to 10 ins., 2-yr. T.		40.00
Euonymus vegetus, 12 to 15 ins., branched		45.00
Euonymus patens, 12 to 15 ins., bushy		35.00
Ribes alpinum, 10 to 15 ins., bushy		25.00
Rhodotypos kerrioides, 10 to 15 ins., bushy		18.00

STROHL'S NURSERY

5204 St. Joe Road Ft. Wayne, Ind.

1 and 2-yr. liners: Chinese Tallow Tree, 1-yr., 6 to 8 ins., 3c each, hundred lots; \$25.00 per 1000. Chinese Redbud, 1-yr., 6 to 8 ins., 5c each. Crape Myrtle, 2-yr., 8 to 10 ins., 35c each. Jap. Evergreen Oak, 1-yr., 6 to 8 and 8 to 10 ins., 12c each. Mahonia bealei, 2-yr., 15c each. Cocos Australis (Palm), 1-yr., 3c each, \$25.00 per 1000. Umbrella China Tree, 1-yr., 6 to 8 ins., 2 1/2c each. White Dogwood, 1-yr., 8 to 12 ins., 2 1/2c each.

Seeds, per lb: Cedrus deodara, \$3.50; Ginkgo biloba, \$1.75; Nandina, \$1.00; Mahonia bealei, \$2.50; Cocco australis (Palm), 60c.

Jordan Nurseries, P. O. Box 269, Warner Robins, Ga.

LINING-OUT STOCK

Per 100

Juniperus glauca hetzi, 3-yr.		\$25.00
Ilex bullata, 2-yr.		25.00
crenata rotundifolia, 2-yr.		25.00
Taxus hatfieldi, upright, 2-yr.		25.00
cuspidata, 2-yr.		25.00
brown, 2-yr.		25.00
capitata, tip cuttings, 2-yr.		25.00

Taxus cuspidata hybs., heavy, dense

growers, superior to cusp., 2-yr.

FOR NURSERY PICK UP ONLY

Choice select Boyce Thompson Ilex opaca,

2 XX, 4-in. Mennepot, \$1.00 each.

All stock grown in open beds.

SANDY LYNNE NURSERY

462 Ave. A, Horsham, Pa.

SEEDLINGS

100 1000

Crataegus phaenopyrum (cordata), 1-yr. seedlings, 12 to 15 ins.	7.50	\$60.00
Picea pungens glauca, 2-yr. seedlings, 4 to 6 ins.	5.00	40.00
Pinus flexilis, 4-yr. seedlings, 4 to 6 ins.	7.00	60.00
Taxus capitata, 2-yr. seedlings, 3 to 6 ins.	10.00	85.00
Thuja occidentalis, 2-yr. seedlings, 4 to 6 ins.	5.00	40.00
Magnolia virginiana, 2-yr. seedlings, 4 to 8 ins.	10.00	85.00

WELL-ESTABLISHED CUTTINGS

FROM 2 1/2-IN. POTS

10 100

\$3.50 \$25.00

Berberis julianae

Berberis thunbergii atropurpurea (Crimson Pygmy)

Chamaecyparis cyano viridis

Chamaecyparis plumosa aurea

Euonymus carteri

Euonymus japonicus

Euonymus patens

Euonymus vegetus

Ilex aquifolium Ciliata Major

Ilex cornuta burfordi

Ilex crenata convexa

Ilex crenata microphylla

Ilex crenata rotundifolia

Ilex glabra

Ilex opaca (4 to 6 ins. in the following named varieties)

Arden Farage

Christmas Tide Femina No. 16

Della Bradley Joyce

Juniperus depressa plumosa

Juniperus horizontalis (Bar Harbor)

Juniperus horizontalis wilsoni glauca

Juniperus pfitzeriana nana

Pieris japonica

Prunus laurocerasus schinkensis

Sarcococca hookeriana humilis

Taxus canadensis stricta

Taxus cuspidata nana

Taxus media cliftoni

Taxus media Halloran

Taxus media henryi

Taxus media hicksii

Taxus media Moon's columnaris

Taxus media vermeulenii

Taxus media wardi

Thuja occidentalis globosa Howe

Thuja occidentalis globosa Novum

Thuja occidentalis nigra

HESS' NURSERIES

Wayne, N. J.

LINING-OUT LIST

PRICES SUBJECT TO CHANGE

WITHOUT NOTICE.

ALL POTTERY LINERS ON THIS LIST

ARE PRICED FOR SHIPMENT IN PAPER

POTS OR CUPS, THOSE WHO PREFER

THE ORDINARY METHOD OF PACKING,

OMITTING THIS ADDED PROTECTION,

MAY DEDUCT 1c PER PLANT. THE 1000

RATE APPLIES ON ALL ORDERS.

THEREFORE, PLEASE ORDER IN MUL-

TIPLIES OF 25 OR MORE.

EACH, PER 1000

BIOTA AUREA NANA

2 1/2-in. pots

2 1/2-in. pots

BIOTA AUREA PYRAMIDALIS

COMPACTA

2 1/2-in. pots

2 1/2-in. pots

BIOTA BAKERI

surplus price

2 1/2-in. pots

2 1/2-in. pots

BIOTA BONITA

2 1/2-in. pots

2 1/2-in. pots

BIOTA EXCELSA

2 1/2-in. pots

2 1/2-in. pots

BIOTA SIBYL

2 1/2-in. pots

2 1/2-in. pots

CEDRUS DEODARA, surplus price

12x15-in. seedlings, grafting size

BLUE LAWSON CYPRESS

2 1/2-in. pots

2 1/2-in. pots

JUNIPERUS CHIN. Pfitzeriana

2 1/2-in. pots

JUNIPERUS CHIN. Pfitzeriana

NANA

2 1/2-in. pots

2 1/2-in. pots

JUNIPERUS CHIN. Pfitzeriana

BLUE GREY

2 1/2-in. pots

2 1/2-in. pots

JUNIPERUS GLAUCA HETZI

2 1/2-in. pots

2 1/2-in. pots

JUNIPERUS HORIZONTALIS

PLUMOSA (Andorra Juniper)

2 1/2-in. pots

JUNIPERUS VIRGINIANA KETLEBERI

2 1/2-in. pots

2 1/2-in. pots

TAXUS MEDIA BREVIFOLIA

2 1/2-in. pots

2 1/2-in. pots

ABELIA GRANDIFLORA

2 1/2-in. pots

2 1/2-in. pots

BERBERIS JULIANAE

2 1/2-in. pots

2 1/2-in. pots

BERBERIS SARGENTI

2 1/2-in. pots

2 1/2-in. pots

BUXUS JAPONICA

2 1/2-in. pots

(Continued in next column)

(Continued from previous column)

BUXUS SEMPERVIRENS CRONI

(Cron hardy Boxwood)

2 1/2-in. pots

2 1/2-in. pots

CAMELLIA SASANQUA MAIDEN'S

BLUSH

2 1/2-in. pots

2 1/2-in. pots

ELAEAGNUS FRUITLANDI

2 1/2-in. pots

2 1/2-in. pots

EUONYMUS JAPONICUS

2 1/2-in. pots

EUONYMUS PATENS, small leaf

2 1/2-in. pots

EUONYMUS RADICANS ERECTA

2 1/2-in. pots

2 1/2-in. pots

GARDENIA FORTUNEI,

surplus price

2 1/2-in. pots

3-in. pots

GARDENIA RADICANS

2 1/2-in. pots

3-in. pots

ILEX CORNUTA, seedlings,

surplus price

2 1/2-in. pots

3-in. pots, extra heavy

ILEX CORNUTA BURFORDI

2 1/2-in. pots

2 1/2-in. pots

3-in. pots

ILEX CORNUTA FEMINA

2 1/2-in. pots

2 1/2-in. pots

ILEX CRENATA CONVEXA BULLATA

2 1/2-in. pots

2 1/2-in. pots

ILEX CRENATA FOSTERI No. 1

2 1/2-in. pots

ILEX CRENATA ROTUNDIFOLIA

2 1/2-in. pots

2 1/2-in. pots

ILEX OPACA EAST PALATKA

2 1/2-in. pots

2 1/2-in. pots

ILEX OPACA FEMINA

2 1/2-in. pots

JASMINUM FLORIDUM

2 1/2-in. pots

CHERRY LAUREL

2 1/2-in. pots

LIGUSTRUM IONANDRUM

Introduced by U. S. Government from

the Orient. Foliage leaves are as small

as those of Ilex crenata. Will form a

perfect specimen by natural growth

without shearing.

2 1/2-in. pots

2 1/2-in. pots

LIGUSTRUM JAPONICUM

2 1/2-in. pots

LIGUSTRUM LUCIDUM COMPACTUM

2 1/2-in. pots

2 1/2-in. pots

LIGUSTRUM SINENSIS PENDULUM

(Weeping Amur River South Privet)

2 1/2-in. pots

MAGNOLIA GRANDIFLORA

2 1/2-in. pots

2 1/2-in. pots

MAHONIA BEALEI

3-in. pots

2 1/2-in. pots

NANDINA DOMESTICA

3x4-in. seedlings

2 1/2-in. pots

2 1/2-in. pots

2 1/2-in. pots

PHOTINIA SERRULATA

2 1/2-in. pots

2 1/2-in. pots

PITTIOSPORUM TOBIRA

2 1/2-in. pots

2 1/2-in. pots

PODOCARPUS MACROPHYLLA

2 1/2-in. pots

2 1/2-in. pots

PYRACANTHA BELLI

2 1/2-in. pots

2 1/2-in. pots

PYRACANTHA YUNNANENSIS

2 1/2-in. pots

TEUCRIUM CHAMAEDRY

2 1/2-in. pots

2 1/2-in. pots

VIRBURNUM TINUS

2 1/2-in. pots

2

LINING-OUT STOCK—Continued

LINING-OUT STOCK

Following is a partial list of the many thousands of our high-quality liners. We have the finest liners that can be produced and invite your trial order.

	Per 100
Feijoa sellowiana (Pineapple Guava)	
8 to 12 ins.	\$15.00
Gardenia August Beauty	
8 to 12 ins.	12.50
Gardenia Mystery	
8 to 12 ins.	15.00
Ilex crenata rotundifolia	
6 to 8 ins.	17.50
8 to 12 ins.	20.00
Ilex glabra	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
Ilex opaca foersteri	
6 to 8 ins.	12.50
8 to 12 ins.	17.50
Juniperus chinensis pfitzeriana	
6 to 8 ins.	15.00
8 to 12 ins.	20.00
Juniperus depressa plumosa (Andorra)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Lonicera yunnanensis (low Honeysuckle)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Nandina domestica	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
12 to 18 ins.	20.00
Osmanthus fragrans (Sweet Olive)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Pittosporum tobira	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
Magnolia grandiflora	
6 to 8 ins., transplanted	15.00
8 to 12 ins., transplanted	20.00
Magnolia soulangeana	
12 to 18 ins., 2-yr.	40.00
18 to 24 ins., 2-yr.	45.00
Magnolia stellata, 2-yr., 12 ins. and up.	40.00

We grow the finest container-grown stock in the South and have a much better selection of stock to select from. Write for our wholesale prices of all items.

BLACKWELL NURSERIES
Semmes, Ala.
WHOLESALE ONLY

LINING-OUT STOCK

	Per 100
FIELD-GROWN LINERS	
Abelia grandiflora, 12 to 18 ins., bare-root	\$20.00
Spiraea reevesiana, 12 to 18 ins., bare-root	20.00
Lagerstroemia indica, white and red; 12 to 18 ins., bare-root	30.00
BED-GROWN LINERS	
Ilex crenata bullata	12.00
Ilex c. macrophylla	12.00
Ilex c. rotundifolia	12.00
Ligustrum lucidum	12.00
Magnolia fuscata	12.00
Osmanthus aquifolium	14.00
Osmanthus fortunei	14.00
Osmanthus fragrans	14.00
Photinia glabra	14.00
Hydrangea	14.00
Magnolia stellata Water Lily	40.00
POTTED LINERS, 2 1/2-in. pots	
Callistemon rigidus (Bottle Brush)	16.00
Ilex burfordi	16.00
Ilex cornuta femina	18.00
Ilex foersteri	18.00
Ilex opaca East Palatka	18.00
Ilex opaca howardii	18.00
Ilex opaca Humes	18.00
Ilex opaca Lake City	18.00
Ilex opaca Taber	18.00
Ilex vomitoria (Yaupon)	18.00
Pyracantha lalandi	18.00

Substantial discounts will be given on quantity rates. Write for price list on complete stock offering of Azaleas, Camellias, Japonica and Sasanqua; Magnolias and other ornamentals.

OVERLOOK NURSERIES, INC.

4115 Overlook Rd. Mobile, Ala.

LINING-OUT STOCK

	Per 100	Per 1000
American Holly, 6 to 12 ins.	\$ 8.00	\$70.00
American Holly, 12 to 18 ins.	10.00	90.00
Yaupon Holly, 6 to 12 ins.	5.00	40.00
Yaupon Holly, 12 to 18 ins.	7.00	60.00
Cherry Laurel, 6 to 12 ins.	3.00	25.00
Cherry Laurel, 12 to 18 ins.	5.00	40.00
Long-leaved Pines, 2-yr.	3.00	20.00
Live Oaks, 8 to 18 ins.	4.00	35.00
Magnolia glauca, 4 to 8 ins.	5.00	40.00
Magnolia grand., 2 to 4 ins.	4.00	35.00

L. H. BUTTER NURSERY
Box 205 Forest Hill, La.

NANDINA DOMESTICA

	Each, 100	1000
4 to 6 ins.	\$0.05	\$0.05
6 to 10 ins.	.09	.09
10 to 15 ins.	.15	.12 1/4
15 to 18 ins.	.20	.17 1/4
18 to 24 ins.	.25	.22 1/4
2 1/2-in. pots	.15	.12 1/4

Send for spring list specimens, Nandina, Azaleas, Broad-leaved Evergreens, etc.
THE TANKARD NURSERIES
Exmore, Va.

EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root	\$0.05
Andorra Juniper, 8 to 10 ins., bands	.14 1/2
Blue Hetz Juniper, 6 to 8 ins., bare-root	.06
Pfitzer Juniper, 6 to 8 ins., bare-root	.08
Pfitzer Juniper, 8 to 10 ins., bands	.14 1/2
Von Ehren Juniper, 6 to 8 ins., bare-root	.06
Spreading Jay, Yew, 6 to 8 ins., bands	.20

DECIDUOUS, BARE-ROOT

Blue Spiraea (Caryopteris)	.04
8 to 12 ins.	
Golden Ninebark (Physocarpus), 4 to 6 ins.	.04
Forsythia Arnold's Giant, 4 to 6 ins.	.08
Forsythia Lynwood Gold, 6 to 10 ins.	.05
Forsythia Spring Glory, 6 to 10 ins.	.04
Honeysuckle vine, heckerotti or Gold Flame, everblooming, 6 to 10 ins.	.05
Privet, Chinese, Wayside Gardens strain; 8 to 12 ins.	.04
Privet, Regels, 6 to 10 ins.	.04
Privet, Golden Vicary, all yellow; 4 to 6 ins.	.06
Spiraea froebelii, 4 to 5 ins.	.04

BROADLEAFS

Euonymus carrierei, 6 to 10 ins.	.04
Euonymus patens Flagpole, small-leaved; 6 to 10 ins.	.04
Euonymus patens Owen, small-leaved; 6 to 10 ins.	.04
Euonymus patens, large-leaved; 8 to 10 ins.	.04
Euonymus patens Newport, medium-leaved; 6 to 10 ins.	.04
Euonymus patens Rosehill, medium-leaved; 6 to 10 ins.	.04
Honeysuckle vine Gold Net, variegated-leaf; 5 to 6 ins.	.06
Pyracantha lalandi, 5 to 6 ins.	.05
Pyracantha Kusan, 5 to 6 ins., hardy in Iowa	.08

Less than 300 total order, add 2c per plant.
MCININCH GREENHOUSES
St. Joseph, Mo.

LINING-OUT STOCK, SPRING 1958

Ilex glabra, heavy, 2-yr. transplants, \$40.00 per 100, \$350.00 per 1000, (Special, 2000 for \$565.00).	
Thuja occidentalis nigra, 2-yr., T. fr., \$40.00 per 100, \$350.00 per 1000.	
Pieris japonica (Japanese Andromeda), strong rooted seedlings, 1 to 3 ins., \$6.00 per 100, \$50.00 per 1000; also 50,000 2-yr. transplants, 6 to 9 ins., \$30.00 per 100, \$250.00 per 1000.	
Ilex opaca St. Mary, selected, heavy berry, deep orange-red color; well-rooted, grown from cuttings, \$65.00 per 100, \$350.00 per 1000.	
Ilex cornuta burfordi, 2-in. bands, heavy roots, cutting-grown, \$17.00 per 100, \$160.00 per 1000.	
Azalea Hinodogiri, liners, transplants, in 2-in. bands, \$15.00 per 100, \$125.00 per 1000.	
Dogwood, pink; 2-yr. grafts, 12 to 18 ins., \$150.00 per 100.	
Dogwood, pink; cuttings, potted and banded, 2-in., \$25.00 per 100, \$75.00 per 1000.	
Magnolia stellata, 2-in. plant bands, cutting-grown, \$65.00 per 100.	

ROOTED CUTTINGS

	Per 100	Per 1000
Taxus cuspidata	\$12.00	\$100.00
Taxus hicksii	13.00	100.00
Lawson Blue Cypress	12.00	100.00
Thuja plicata elegantissima	12.00	100.00
Rhododendrons, hybrid grafts, \$75.00 per 100. Assortment as listed: Dr. Dreessenhuys, Caractacus, Belle de Neige, roseum elegans, America, Charles Dickens, catawbiense album.		
Sciadopitys verticillata, 2-in. pots, \$25.00 per 100 (sold only in lots of 100).		

CEDARHURST NURSERIES, INC.

2044 Pawtucket Ave. East Providence, R. I.

POTTED LINERS

	Each, 100	1000
Berberis julianae, 2 1/2-in. pots	\$0.25	\$0.20
Berberis julianae, 3-in. pots	.35	.30
Cotoneaster aciculata, 2 1/2-in. pots	.30	.25
Ilex glabra, compact; 2 1/2-in. pots	.25	.20
Prunus laurocerasus zabeliana, 2 1/2-in.	.25	.20
Pyracantha lalandi, 2 1/2-in. pots	.25	.20
Taxus hicksii, 3-in. pots	.40	.35
Taxus brownii, 3-in. pots	.40	.35
Viburnum burkwoodii, 2 1/2-in. pots	.22	.20
Viburnum carlesii, 2 1/2-in. pots	.30	.25
Viburnum juddii, 2 1/2-in. pots	.35	.30

SEEDLINGS

Cercis canadensis, 10 to 18	.03	.02
Cercis canadensis, 18 to 24	.05	.04

DONALD J. HILLENMEYER

1550 Meadowthorpe Ave. Lexington, Ky.

STRONG LINERS

Pfitzer Juniper, 8 to 12 ins., 2-yr., TT.	\$0.40
Andorra Juniper, 8 to 12 ins., 2-yr., TT.	.40
Ilex rotundifolia, 6 to 9 ins., sheared	.30
Leucothoes, 6 to 9 ins.	.50
Pieris floribunda, 9 to 15 ins.	.50
Azalea mollis, 6 to 10 ins.	.35
bushy, 8 to 15 ins.	.50
Ilex rotundifolia, 12 to 15 ins.	.45
Ilex convexa, 10 to 15 ins.	.45
Azalea mollis, budded, 9 to 12 ins.	.75
12 to 15 ins.	1.00

Samples at cost.

DUGAN NURSERIES, INC.

Center St. Perry, O.
South of Route U.S. 20, east of Painesville.

LINING-OUT TREES 100 1000

Birch, European White, 4 to 6 ft., branched, T.	\$85.00	
Dogwood, White; 6 to 12 ins., seedlings	4.00	\$35.00
12 to 18 ins., seedlings	5.50	50.00
Elm, Chinese		
12 to 18 ins., 1-yr. seedlings	2.50	20.00
18 to 24 ins., 1-yr. seedlings	3.50	30.00
3 to 4 ft., 2-yr. seedlings	7.50	65.00
4 to 6 ft., 2-yr. seedlings	12.00	100.00
Maple, Fraxinus Red-leaved, 5 to 6 ft., whips, T.	150.00	
Maple, Norway, 4 to 6 ft., whips, T.	80.00	
5 to 6 ft., whips, T.	110.00	
Maple, Schwedler, 5 to 6 ft., whips, T.	200.00	
Maple, Sugar, 4 to 5 ft., branched, T.	175.00	
5 to 6 ft., branched, T.	225.00	
Maple, Silver, 12 to 18 ins., seedlings	3.50	30.00
18 to 24 ins., seedlings	4.50	40.00
2 to 3 ft., 1-yr., seedlings	6.50	60.00
3 to 4 ft., 2-yr., seedlings	8.00	75.00
4 to 5 ft., 2-yr., seedlings	9.00	85.00
5 to 6 ft., partly branched, 2-yr., seedlings	15.00	
Poplar, Boileana, 2 to 3 ft., cuttings	20.00	
3 to 4 ft., cuttings	30.00	
Poplar, Lombardy, 2 to 3 ft., cuttings	7.50	65.00
3 to 4 ft., cuttings	10.00	85.00
4 to 5 ft., cuttings	15.00	130.00
Willow, Babylon, 2 to 3 ft., cuttings	10.00	85.00
3 to 4 ft., cuttings	15.00	135.00
4 to 5 ft., cuttings	25.00	
Willows, Thurlow and Golden Weeping, 3 to 4 ft., cuttings	15.00	
4 to 5 ft., cuttings	25.00	

Write for price list on other lining-out and finished stock.
WAYNESBORO NURSERIES
Waynesboro, Va.

LINING-OUT STOCK

No transplanting risk with this pot-grown stock, with good tops and well-established roots. Ready for field or container planting.	
Berberis mentenensis	\$0.10
Cotoneaster pannosa	.22
Euonymus Newport	.11
Euonymus japonicus	.11
Euonymus japonicus microphyllus	.11
Euonymus japonicus Goldspot	.20
Euonymus radicans coloratus	.11
Euonymus radicans, upright (Sarcoxie)	.11
Euonymus radicans minimus	.20
Hedera helix	.11
Hedera helix variegata	.11
Jasminum floridum	.16
Ligustrum Vicary Golden	.15
Lonicera purpurea	.11
Lonicera heckerotti	.11
Lonicera aurea-reticulata	.11
Lonicera yunnanensis	.16
Pyracantha lalandi	.16
Pyracantha wyatti	.16
Pyracantha pauciflora	.11
Santalina chamaecyparissus	.15
Toucarium chamaedryfolium (Gormander)	.15
Viburnum rhytidophyllum	.25
Biota orientalis aurea nana	.20
Biota orientalis aurea globosa	.20
Biota orientalis bonita, upright	.18
Biota orientalis strobilata	.18
Juniperus pfitzeriana	.20
Juniperus pfitzeriana glauca	.20
Juniperus pfitzeriana plumosa	.20
Juniperus hetzi	.18
Juniper, Andorra	.16
Juniper, Savin V. Ehren	.16
Juniper, Savin V. Ehren	.16
Juniperus scopulorum Blue Star	.20
Juniperus squamata expansa	.25

Priced per 100. Minimum 25 of one kind.

No packing charge for cash with order.

KENYONS NURSERY, DOVER, OKLA.

FIELD-GROWN LINERS

	Per 100
All twice transplanted	
Juniperus pfitzeriana, 9 to 12 ins., XX	\$40.00
Golden, 9 to 12 ins., XX	40.00
Thuja woodwardi, 9 to 12 ins., XX	40.00
Thuja occidentalis, 9 to 12 ins., XX	40.00
Ilex rotundifolia, 9 to 12 ins., XX	45.00
convexa, 8 to 10 ins., XX	35.00
TAXUS, 3 TIMES TRANSPLANTED	
Taxus cuspidata, 9 to 12 ins., XXX	50.00
European White Birch (seedlings)	
2 to 3 ft.	16.00
3 to 4 ft.	25.00
4 to 5 ft.	45.00
5 to 6 ft.	70.00

Cash with order earns free packing.

DAMASCUS NURSERIES

Damascus, O.

LINING-OUT STOCK

2-yr. transplants, bed-grown, Mulched. Grown under controlled irrigation.		
	Each, 100	1000
Juniperus chin. pfitzeriana	.....\$0.35	\$0.30
Taxus media hatfieldi	.....35	30
Taxus media hicksii	.....35	30
Taxus cuspidata	.....35	30
Chamaecyparis plumosa aurea	.....30	27 1/2
Thuja occ. woodwardi	.....30	27 1/2
Thuja occ. nigra	.....30	27 1/2
All stock offered subject to being sold and under standard nursery terms.		
IMPERIAL NURSERIES		
P. O. Box 800 Hartford, Conn.		
Phone Chapel 5-4413		

All stock offered subject to being sold and under standard nursery terms.

IMPERIAL NURSERIES

P. O. Box 1000 East Hartford, Conn.
Phone Chapel 9-8413

FIELD-GROWN
LINING-OUT STOCK

	Each, 100	1000	5000 to 15,000
Andorra Juniper, 1-yr., 6 to 12 ins.	\$.017%	\$.015	\$.012%
Ashford Juniper, 1-yr., 6 to 12 ins.	.17%	.15	.12%
Canfora Juniper, 1-yr., 6 to 12 ins.	.17%	.15	.12%
Euonymus Japonicus, 1-yr., 6 to 12 ins.	.17%	.15	.12%
Fastigiata Juniper, 1-yr., 6 to 12 ins.	.17%	.15	.12%
Green Juniper, 1-yr., 6 to 12 ins.	.17%	.15	.12%
Hets Juniper, 1-yr., 6 to 12 ins.	.20	.17%	.15
Irish Juniper, 1-yr., 6 to 12 ins.	.17%	.15	.12%
Kodak Juniper, 1-yr., 6 to 12 ins.	.27%	.25	.22%
Pätzler Juniper, 1-yr., 6 to 12 ins.	.22%	.20	.17%
Pätzler Jun., compacta (Owens), 1-yr., 6 to 12 ins.	.22%	.20	.17%
Savin Juniper, 1-yr., 6 to 12 ins.	.17%	.15	.12%
50 or more plants at 100 rate.			
300 or more plants at 1000 rate.			
1000 or more plants at 5000 rate.			
Please order in multiples of 25!			
NAUGHER'S packing is free when cash, check or money order accompanies order.			
You'll like NAUGHER'S quality!			
NAUGHER NURSERY			
Chase, Alabama			

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds, under field conditions and ready for field planting.

	Per 100
Ilex cornuta burfordi, 8 to 10 ins.	\$12.00
Ilex cornuta burfordi, 4 to 6 ins.	10.00
Ilex cornuta femina, 8 to 10 ins.	12.00
Ilex opaca femina (American Holly), 8 to 10 ins.	25.00
Ilex opaca femina, 4 to 6 ins.	20.00
Ilex opaca howardi, 8 to 10 ins.	16.00
Ilex crenata rotundifolia, 8 to 10 ins.	12.00
Ilex crenata rotundifolia, 4 to 6 ins.	10.00
Acubia japonica, 4 to 6 ins.	15.00
Buxus harlandi, 4 to 6 ins.	10.00

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES
Poplar Pike
Germantown, Tenn.

LINING-OUT STOCK

	Per 100
400 Euonymus alatus comp., 2-yr.	\$20.00
1,000 Euonymus patens, 2-yr.	15.00
1,300 Ilex rotundifolia, 2-yr.	20.00
6,700 Ilex rotundifolia, 2-yr.	20.00
10,000 Ilex opaca, seedlings, 3-yr.	25.00

These are from seed of one of the beautiful specimens we have named "CARRIER," 12 to 18 ins. and ready to go to field.

200 grafts of Ilex opaca "Carrier," ready May 1, \$1.00 each.

2,400 Ilex opaca K 1, potted October. \$20.00

900 Ilex opaca K 1, 2-yr. 25.00

TAXUS

5,750 browni, 1-yr.	17.00
5,000 cuspidata, 2-yr.	22.50
8,700 cuspidata, 1-yr.	15.00
1,100 hatfield, upright; 1-yr.	17.50
1,400 hickoi, 1-yr.	15.00
2,700 intermedia, 2-yr.	22.50

GRAFTS, out of grafting bench May 1.

2,400 Pyramid Hornbeam. \$45.00

1,000 Rivers Beech. 45.00

500 Weeping Beech. 45.00

500 Fern-leaved Beech. 45.00

All above stock in 2 1/2-in. pots and well established. Subject to being sold.

CLARENCE OTTE NURSERY GARDENS

306 Penruth Ave., Louisville 7, Ky.

LINING-OUT STOCK

Strong, healthy 2 1/2-in. pot-grown, in sterilized soil. Well established. Satisfaction guaranteed.

	Per 100
Buxus harlandi	\$15.00
Buxus japonica	15.00
Callistemon lanceolatus (3-in. pots)	17.50
Callistemon rigidus	15.00
Cleyera japonica	15.00
Ilex (see our ad under Holly this issue)	
Juniperus chin. glauca hetzi	15.00
Juniperus chin. pfitzeriana	20.00
Ligustrum lucidum comp.	15.00
Magnolia fuscata (3-in. pots)	15.00
Omanthus delavayi	15.00
Omanthus fortunei	15.00
Omanthus fragrans	15.00
Pittosporum tobira	15.00

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

POT-GROWN LINING-OUT STOCK

All potted liners listed are 2-yr.-old, grown in pots. Each plant individually wrapped and shipped in heavy cartons. No order accepted for less than 100 plants.

	Per 100	Per 1000
JUNIPERUS CHIN. PFITZERIANA 2 1/2-in. pots	\$16.00	\$150.00
JUNIPERUS GLAUCA HETZI 2 1/2-in. pots	16.00	150.00
JUNIPERUS SABINA VON EHREN 2 1/2-in. pots	16.00	150.00
EUONYMUS JAPONICUS 2 1/2-in. pots	14.00	125.00
LAVANDULA VERA 2 1/2-in. pots	12.00	100.00
BIOTA ORIENTALIS PYRAMIDALIS 2 1/2-in. pots	12.00	100.00
NANDINA DOMESTICA 2 1/2-in. pots	14.00	125.00
LIGUSTUM VICARY 2 1/2-in. pots	12.00	100.00
BERBERIS THUN. ATROPURPUREA 2 1/2-in. pots	12.00	100.00
EMIL R. BRESSER, Florist and Nurseryman		
P. O. Box 973 Muskogee, Okla.		

STRONG, HEALTHY 2 1/2-IN.,
POT-GROWN LINERS

	Per 100
Ilex burfordi	\$15.00
Ilex rotundifolia	15.00
Ilex microphylla	15.00
Ilex helleri	15.00
Ilex convexa	15.00
Wax-leaved Ligustrum lucidum compactum	10.00
Ligustrum nobilis lucidum (upright)	10.00
EXTRA NICE 1-YR. ROOTED CUTTINGS	
Ilex burfordi	\$5.00
Ilex rotundifolia	5.00
Ilex microphylla	5.00
Ilex convexa	5.00
Ilex helleri	5.00
Nandinas, seedlings, 2-yr.	5.00
Wax-leaved Ligustrum lucidum compactum	5.00

5108 Western Blvd. Raleigh, N. C.

LINING-OUT STOCK

Cleyera, C.T., 6 to 8 ins.	\$0.15
Ginkgo biloba, 6 to 8 ins.	.15
Gardenia radicans, 6 to 8 ins.	.12%
Gardenia stricta nana, 6 to 8 ins.	.12%
Red Japanese Flowering Cherry 12 to 18 ins.	.20
12 to 18 ins.	.30
2 to 3 ft.	.40
Oriental Magnolias, 2-yr., C.T., liners, heavy roots, liberal grade.	
12 to 18 18 to 24 24 to 3 ft.	
Alba superba	\$0.35 \$0.40 \$0.50
Lilliputian	.35 .40 .50
Nigra	.35 .40 .50
Rustica rubra	.35 .40 .50
Sulangeana	.35 .40 .50
Magnolia stricta, C.T.	\$35.00 per 100.

GRIMES NURSERIES
Semmes, Ala.

POTTED LINERS

5,200 Euonymus patens (S-leaf), 2 1/2-in. pots	\$0.10
4,500 Euonymus radicans erectus, 2 1/2-in. pots	.11
7,500 Euonymus radicans (S-yr.), 2 1/2-in. pots	.18
11,000 Spiraea froebelii, 2 1/2-in. pots	.11
2-YR. FIELD-GROWN	
3,750 Euonymus fortunei erectus	.22
3,000 Euonymus radicans erectus	.24
1,200 Euonymus patens (S-leaf)	.20
7,000 Euonymus patens (S-leaf)	.22

BORK NURSERY
Onarga, Ill.

BARE-ROOT LINERS

	Prepaid	Per 100
Acer davidi		\$17.00
Alnus glutinosa, 5 to 18 ins.		6.00
Arctostaphylos uva-ursi		7.00
Ceanothus gloriosus		6.00
Dracaena indivisa		10.00
Ligustrum texanum		6.00
Myrsine africana		6.00
Zelkova serrata, 8 to 10 ins.		6.00
Zelkova serrata, 12 to 18 ins.		10.00
Cash. Minimum order \$25.00.		

BEE LINE NURSERY
San Dimas, Calif.

FINER LINERS, CHOICE ORNAMENTALS
Buying FINER LINERS is buying quality and buying quality is just plain good business. Our new descriptive spring catalog is full of choice ornamentals from seedlings, rooted cuttings and grafts up to 6-yr. transplants, bare-root, soil ball or potted. Profit from our 15 years of experience, send for your free copy today.

JOHN VERMEULEN & SON, INC.
Finer Liners Neahie Station, N. J.

HARDY LIVE OAK

Evergreen. Native in western Oklahoma mountains. Grown at Noble 20 years. No bud or twig hurt by 15 below zero. 1-yr. seedlings, \$15.00; 2-yr., \$20.00 per 100. Few native Red Oak, 2-yr., \$15.00.

NOBLE NURSERY, NOBLE, OKLA.

LINING-OUT STOCK

Biota, Ilex, Juniper, Taxus, Thuja, Retinospora and Broad-leaved, rooted cuttings and transplants. List upon request.

MIST-O-GATION, INC., Middletown, Del.

STRONG LINING-OUT STOCK

Pätzler Juniper, 4 to 6 ins., 1-yr.	\$0.06
8 to 10 ins., 1-yr.	.12
8 to 10 ins., 2-yr.	.14
10 to 14 ins., 2-yr.	.18
Ilex burfordi, rooted cuttings	.03
Euonymus patens, 4 to 8 ins.	.02
6 to 8 ins.	.04
E. F. DuBOISE NURSERY, Huntville, Ala.	

LINERS OF THE BETTER KINDS
Write for price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

MAGNOLIAS

Magnolia grandiflora, 4 to 8 ins. high; shipped in 2 1/2-in. pots, \$15.00 per 100, \$140.00 per 1000 here, you pick up. Can furnish several thousand 2 1/2-in. Magnolias, 3 to 4 ins. high, \$110.00 per 1000 here, you pick up. If you have room in greenhouse, these should make a spurt of growth of about 12 ins. hurriedly. Have seedlings just coming up (January 22), pot in fine order in two weeks, \$25.00 per 1000, \$4.50 per 100. Shipped in plastic bags, air parcel post, you pay postage. Others in cans and pots, bushel baskets, up to about 8 ft. Cash with order earns 8 per cent discount; otherwise 25 per cent cash with order and balance before shipment.

Harwell Nursery, Van Buren, Ark.

MAGNOLIA LINERS

POTTED SEEDLINGS

	Each, 100	1000
Grandiflora, 2 1/2-in. pots	\$0.15	\$0.12
Grandiflora, 3-in. pots	.30	.25
Virginiana, 2 1/2-in. pots	.35	.20

These are stocky plants. Magnolia grandiflora seedlings gathered from local trees and past experiences show them to be harder than seed from farther south. 3-in. pots good for canning.

DONALD J. HILLENMEYER
1550 Meadowthorpe Ave. Lexington, Ky.

MAPLES

ACER PALMATUM ATROPURPUREUM
Japanese Red Maple, seedlings.
Carefully selected. Finest reds only.
Well hardened from open field beds.
Liners and heavy potting grades,
in large quantities.

	250 or more	Each	Each
Branched transplants	Per 100		
2-yr., X, 10 to 12 ins.	\$0.55	\$0.50	
2-yr., X, 12 to 15 ins.	.65	.60	
For 6-in. pots, nicely branched			
2-yr., XX, 12 to 15 ins.	.80	.75	
2-yr., XX, 15 to 18 ins.	.95	.90	
For 6 and 8-in. pots, nicely branched			
4-yr., XXX, 10 to 12 ins.	1.00	.95	
4-yr., XXX, 12 to 15 ins.	1.25	1.15	
4-yr., XXX, 15 to 18 ins.	1.60	1.50	

All 3 and 4-yr. grades are excellent plant material, salable now. Shipped bare-root in sphagnum.

20 per cent deposit will reserve your order, balance before delivery.

HUBBS NURSERIES

Route 130 Riverton, N. J.

Specializing in Maple seedlings for 12 years.

ACER SACCHARUM (SUGAR MAPLES)

Collected, 5000 2 to 3 ft., \$60.00 per 1000.

Straight, well-rooted live trees. All orders are filled with freshly dug stock, packed right, so they will reach you in a good growing condition. Samples free.

TERMS: 1/3 cash with order, 10 per cent cash discount from the above price if you can use the 5000. No charge for packing.

LAKE VIEW FRUIT FARM

Route 5 Coldwater, Mich.

SUGAR MAPLE

Good roots. Native. Nice tops.

Being dug now.

	Each, 10	100
4 to 6 ft., 3/4 to 1 1/2-in.	\$0.75	\$0.60
6 to 7 ft., 3/4-in. and up	1.25	.90
6 to 7 ft., 1-in. and up	1.50	1.25
6 to 8 ft., 1-in. and up	1.90	1.50

Write for prices on larger sizes.

JOHN L. KOOLEN NURSERY

2056 College Ave., S. E., Grand Rapids, Mich.

Phone GL 2-7213

ACER PALMATUM

Selected seedlings with good fibrous roots.

12 to 24 ins.	20c
6 to 12 ins.	15c

Ready for immediate or later shipment.

W. B. CLARKE & CO.

P. O. Box 343 San Jose, Calif.

SUGAR MAPLE

Special, 8 to 10-ft. grade, averaging 1-in. caliper, \$37.50 per 10.

WAYNESBORO NURSERIES, INC.

Waynesboro, Va.

Acers, saccharum and rubrum, root-pruned, fibrous, 2-in. to 1 1/2-in. caliper.

R. H. Rogers Nursery, Cooperstown, N. Y.

MAPLES—Continued

NORWAY MAPLE
Straight trunks, fine heads. Very fibrous roots.

6 to 8 ft.	10-49 50-250
8 to 10 ft., 1 to 1 1/4-in.	4.40 3.50
9 to 11 ft., 1 1/4 to 1 3/4-in.	6.00 5.00
10 to 12 ft., 1 3/4 to 2-in.	8.00 7.00
11 to 13 ft., 2 to 2 1/2-in.	11.00 9.00

PRINCETON NURSERIES
Princeton, N. J.

JAPANESE RED MAPLES
4 to 6 ins., own-root.

1-yr., T. \$25.00 per 100.
Also have a limited supply of 4-yr. transplanted seedlings, well-branched, 8 to 16 ins., \$1.25 each.
Cash, please.

WALNUT CREEK NURSERY
2036 Zimmerly Rd. Erie, Pa.

MAPLES
Sugar and Norway Maples, 8 to 10 and 10 to 12 ft. Nice trees priced right. Send for spring list of specimen ornamentals, Azaleas and liners.

THE TANKARD NURSERIES
Exmore, Va.

COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

Small Ads Do Great Things in the American Nurseryman Classified Section.

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PACHYSANDRAS
1-yr.-old, large-frame plants.
Satisfaction guaranteed.
Large quantity.
\$5.50 per 100, \$43.00 per 1000.
\$40.00 per 5000.

BRUNDAGE & GUTHRIE
123 Franklin St. Tarrytown, N. Y.

PACHYSANDRA TERMINALIS
Per 100 Per 1000
1-yr. plants \$5.00 \$42.50
2 1/2-in. pot-grown plants 10.50 95.00
HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock. \$45.00 per 1000; \$42.50 per 1000 for 5000 or more, including good packing.
Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS
Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.

DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS
1-yr., field-grown, \$65.00 per 1000.
Rooted cuttings, \$4.25 per 100.
HILLCREST GREENHOUSES
Box 468 Franklin, Pa.

PACHYSANDRAS
Out of 2-in. pots, \$12.00 per 100, \$100.00 per 1000. F.O.B. Elizabeth, N. J.
DELAWARE VALLEY NURSERY
948 N. Broad St. Elizabeth, N. J.

Classified Ads Offer Maximum Results at Minimum Cost.

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2-YR. FIELD-GROWN PEONIES
Whole clumps, not divided; 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000, following varieties:

Adolph Rousseau, Albert Crouse, Barones Schroeder, Duch. de Nemours, Edulis Superba, Felix Crouse, Festiva Maxima, Gen. McMahon, Karl Rosefeld, Lady Alex. Duff, Marie Lemoine, Mons. Jules Elie, Reine Hortense, Sarah Bernhardt.
VERKADE'S NURSERIES, Wayne, N. J.

GRAFTED TREE PEONIES
Red, white, pink, purple; 1-yr., \$10.00 per 10; 2-yr., \$15.00 per 10. A yellow Tree Peony for \$2.95 with each order. Double red Fern-leaved Peonies, \$18.50 per 10.
ATHA GARDENS, WEST LIBERTY, O.

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Selling through the Classified Ads of the American Nurseryman.

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PHLOX SUBULATA
Healthy, undivided field-grown clumps available after March 15. 15 varieties to choose from, \$12.00 per 100. When buying from "Walters" you not only get the best in quality, but our experience in handling and shipping "Moss Phlox" is actually a free bonus on your purchase. "America's largest grower of Moss Phlox."
WALTERS GARDENS
Route 2 Zeeland, Mich.

PHLOX SUBULATA
(Creeping Phlox)

An excellent choice of varieties.
Freshly dug. Prompt shipment prepaid by us.

Alba, pure white
Astro, deep orchid-rose
Atropurpurea, wine-red
Blue Hills, attractive medium blue
Butterfly, lilac bluish, showy purple eye
Crimson Beauty, brilliant cyclamen-red
Sensation, bright pink with red eye
Red Wing, large glowing red flowers

Transplants, \$9.50 per 100, \$90.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000, prepaid.

250 or more of one variety at 1000 rate.
All transportation charges prepaid by us.
Careful packing and each variety labeled.
Terms: Cash with order.

TANGLEWOOD FARM
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PIERIS JAPONICA
CHOICE LINERS 100 1000
3 to 12 ins., field rows, 2-yr., TTT. \$40 \$375
6 to 8 ins., peat bed, 2-yr., TT. 30 275
4 to 6 ins., peat bed, 2-yr., TT. 20 175
Transplants, 1-yr. 10 90
No packing charges.
ECKHART NURSERIES
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PIERIS JAPONICA (ANDROMEDA)
Per 100 Per 1000
1-yr., T, 2 to 3 ins. \$15.00 \$75.00
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West Main Rd. Newport, R. I.

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AMUR RIVER NORTH PRIVET

Clean, plump, hand-sorted,
hardwood Amur River North Privet.
Cuttings, \$15.00 per 5000.
Cash with order, packing free.

ALTA VISTA NURSERIES
Brady St. Rd. Davenport, Ia.

Thousands of Amur River North Privet.
Per 100 Per 1000
18 to 24 ins. \$3.50 \$25.00
2 to 4 ft. 4.00 30.00
3 to 4 ft. 5.00 40.00
Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

PYRACANTHAS

PYRACANTHA LINERS
Both red and yellow berries.
2 1/2-in. pots.
\$15.00 per 100, \$120.00 per 1000.
Ask for price list on other lining-out stock and finished material.
WAYNESBORO NURSERIES
Waynesboro, Va.

PYRACANTHAS
Pyracantha coccinea islandi and Pyracantha formosana, from 2 1/2-in. pots. Ready for 1-gal. cans or field planting, \$17.50 per 100, \$150.00 per 1000.
BLACKWELL NURSERIES
Semmes, Ala.

RHODODENDRONS

STRONG CUTTINGS
Now rooted and flattened 30 to a large flat. Will grow on and be ready for shipment as first-class liners May 1.
Group 1: Album elegans, cat. grandiflorum, roseum superbum, roseum elegans.
Group 2: Cat. album, candidissimum, English roseum, luciferum, purpureum elegans.
Group 3: America, Cynthia, caracacus, Chas. Bagley, F. D. Godman, Ignatius Sargent, Kate Waterer, Prof. Bettex, Prof. Rutgers.
Group 1, \$65.00 per 100.
Group 2, \$80.00 per 100.
Group 3, \$100.00 per 100.
Ask for our new list of Rhododendrons, Azaleas and lilacs.
JAMES S. WELLS NURSERY, INC.
P. O. Box 141 Red Bank, N. J.

RHODODENDRONS
HYBRID RHODODENDRONS
Landscape sizes.
Different colors.
PARMENTIER'S ROSES
Grady St. Bayport, L. I., N. Y.
Phone Bayport 8-0811

100,000 hybrid Rhododendrons, liners and landscape, named varieties; hardy; red, blue, yellow, black, white; fragrant. 500 varieties, ready March 1. Kordus Nursery, Deer Park Ave., R. D. 4, Box 152, Huntington, N. Y.

RHODODENDRON MAXIMUM
Nursery-grown and collected, 3 to 7 ft. high. Well-shaped, symmetrical plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

RHODODENDRONS
Named hybrids. Own-root.
RED VARIETIES

America Gen. Eisenhower
*Caractacus (new)
*Charles Bagley *Giganteum
Dr. Dresselhuys *Lady Clemont
El Alamein (new)

PINK VARIETIES
*English roseum *Roseum elegans
Ignatius Sargent *Roseum superbum
*Parsons gloriosum
PURPLE AND LAVENDER VARIETIES

*Catawbiense Bour-sault Everestianum
Catawbiense grandiflorum Lee's Dark Purple
*Purpureum elegans

WHITE VARIETIES

*Album elegans *Cunningham White
*Album novum *Catawbiense album
Boule de Neige

Strong rooted cuttings from flats.
Red varieties, \$75.00 per 100.
Other colors, \$60.00 per 100.
Starred varieties (*) also available in fine plants, 2 years in the field.
Red varieties, \$140.00 per 100.
Other colors, \$120.00 per 100.

All F.O.B. Rutherford, subject to prior sale. Packing at cost. Order today while selections are complete.
BOBBINK NURSERIES, INC.
East Rutherford, N. J.

ALL RED 1-YR. GRAFTS
Imported by air, carefully re-established with a full root system. Ready May 1, 1958.
AMERICA, DR. DRESSELHUY, E. S. RAND, IGNATIUS SARGENT, JOHN WALTER, NOVA ZEMBLA.
\$125.00 per 100.
Ask for our new list.
J. S. WELLS NURSERY, INC.
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ROSES
2-yr., field-grown, state inspected Rosebushes for immediate or later shipment. Tied in bundles of 10 of a grade and variety. Terms: Cash, or 25 per cent cash and balance C.O.D. Packing free.

Priced each, F.O.B. Lindale.
100 or more 300 or more
No. 1 grade, 35c No. 1 grade, 32c
No. 1 1/2 grade, 30c No. 1 1/2 grade, 27c
No. 2 grade, 23c No. 2 grade, 20c
RED
Better Times
E. G. Hill
*Night
Red Radiance
Ami Quinard
Etoile de Hollande
*Syracuse
Polinettia
Crimson Glory
PINK
Pink Radiance
The Doctor
Mrs. Chas. Bell
Briarcliff
Editor McFarland
Columbia
Shell Radiance
Picture
Paul Neyron
WHITE
K. A. Viktoria
Caledonia
Frau Karl Druschki
White Am. Beauty
Koenigin Luise
TWO-TONE
Pres. Hoover
Tallman
Betty Uprichard
Nellie Perkins

*Denotes 1 1/2 and 2 only.
WELLS BROS. NURSERY
J. J. Wells, Owner
Box 625 Phone 12F4W Lindale, Tex.

MINIATURE ROSES
Beautiful little darlings. Like miniature Hybrid Teas; seldom over 10 ins. tall. The plants we sell are own-root from 2 1/2-in. pots. Per 10 Per 100
Variety
Centennial Miss (pat. 1301),
crimson \$5.00 \$45.00
Oakington Ruby, red 4.00 35.00
Pink Joy (pat. 1378) 4.00 40.00
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Frosty (pat. 1412), white 5.00 45.00
Pinky (pat. 403), white 4.50 40.00
Jackie, yellow 5.00 45.00

SPRING HILL NURSERIES CO.
Dept. AN-2 Tipp City, O.

NORTHERN FIELD-GROWN ROSES
Extra strong. Standard and patented varieties. Hybrid Teas, grandiflora and climbers. No. 1 and medium grade. Our medium grade recommended for potting up purposes. Very liberally graded. Ask for complete list and prices.
D & D ROSE GARDENS, Eatontown, N. J.

ROSES
Hybrid Teas, climbers, polyanthas and floribundas. Excellent quality, priced reasonably. List of varieties free of request.
LINDALE NURSERY
Box 141 Lindale, Tex.
Phone 18F3-W.

2-YR. FIELD-GROWN BUSHES IRRIGATED, CULTIVATED, FERTILIZED AND DUSTED REGULARLY BARE-ROOT, F.O.B. TYLER

100 to 499 500 to 1000
No. 1.....35c each No. 1.....32½c each
No. 1½.....27c each No. 1½.....25c each
No. 2.....20c each No. 2.....18c each
Individually wrapped in attractive bags,
picture label, paraffin dipped, 10c per bush
extra. Package of 3 No. 2, 75c per package.
No packing charge on 100 or more plants.

MALONE NURSERY
502 S. Broadway Tyler, Tex.

ROSEBUSHES 2-YR. PLANTS.

Grown, graded and packed to perfection.
246 varieties and 12 different types to choose
from.

WRITE TODAY FOR PRICES AND YOUR REQUIREMENTS NOW!

ROSEMONT NURSERIES
D. L. Thompson, Owner
Dept. AN Tyler, Tex.

THE SEASON'S BEST DEAL See for yourself

BY
sending for our 1957-58 trade list.
WE STILL OFFER YOU A CHOICE OF
BARE-ROOT AND PREPACKAGED,
PATENT AND STANDARD ROSES.
NEW LONDON ROSES
"The Rose Nursery"
P. O. Box 876 Overton, Tex.

WESTERN-GROWN ROSEBUSHES
Harvest time has started now. Full assortment
of varieties and grades, also booking
orders for individually wrapped with colored
pictures for counter sales.

Write for descriptive price list with full
assortment of Rosebushes, shrubs, fruit trees
and vines.
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Lock Box 181 Edwardsville, Ill.

ROSEBUSHES
A WIDE ASSORTMENT OF REASONABLY
PRICED HIGH-QUALITY ROSEBUSHES
WITH FAST, COURTEOUS SERVICE
IS WHAT YOU GET AT
MARTIN'S ROSE NURSERY
P. O. Box 155 Arp, Tex.

Phone UL-92191
(A copy of our 1957-58 price list
will be mailed to you upon request.)

OUR OWN FIELD-GROWN ROSEBUSHES

For early winter.
Standard varieties, No. 1, 50c; No. 1½, 40c.
Patented varieties available at fixed prices.
Budded on seedlings with a fine root system.
Ideal for potting or home planting.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

SHRUBS AND TREES

LIMITED SUPPLY OF GRAFTS AVAILABLE

Send your order in at once!
Apple branch grafts, for immediate delivery;
leading varieties, \$15.00 per 100, \$62.50
per 500, \$100.00 per 1000.

Flowering Crab bench grafts, for immediate
delivery: Hops, Eley, Aldenheim, Park-
man, \$20.00 per 100, \$30.00 per 500, \$150.00
per 1000. Almey, \$25.00 per 100.

NATIVE SHADE TREES

Heavy branched.
Red (rubrum) Maple, Pin Oak, Sweet Gum,
River Birch and River Birch clumps.

Each, 10 100
* 2 to 4 ft., bare-root..... 0.75
* 4 to 5 ft., bare-root..... 1.00
* 5 to 6 ft., bare-root..... 1.25
* 6 to 8 ft., bare-root..... 2.50 2.00
* 8 to 10 ft., bare-root..... 3.50 3.25
* 1 to 1½-in. B&B..... 6.50 6.00
* 2 to 2½-in. B&B..... 12.00 11.50
* 2½ to 3-in. B&B..... 16.50 16.00
* 3 to 3½-in. B&B..... 22.00 21.00

Grades marked with * sold only in quan-
tities of 50 or more.

EGYPTIAN NURSERY & LANDSCAPE CO.

Farina, Ill.

PINUS STROBUS (WHITE PINE)

Nursery-grown, transpl. Each, 10 100
2 to 3 ft., B&B..... \$1.50 \$1.25
3 to 4 ft., B&B..... 2.25 2.00
4 to 5 ft., B&B..... 3.00 2.75
5 to 6 ft., B&B..... 4.25 4.00

Large specimen quoted by request.

Kalmia latifolia

18 to 24 ins., B&B..... 2.00 1.90

Rhododendron, maximum

18 to 24 ins., B&B..... 2.00 1.90

24 to 30 ins., B&B..... 2.75 2.60

30 to 36 ins., B&B..... 3.25 3.00

catanabensis, 18 to 24 ins., B&B 3.00 2.75

24 to 30 ins., B&B..... 3.50 3.25

Juniperus virginiana, 2 to 3 ft., B&B

3 to 4 ft., B&B..... 1.25 1.00

4 to 5 ft., B&B..... 1.75 1.50

5 to 6 ft., B&B..... 2.25 2.00

Cercis canadensis, 5 to 6 ft., trees form, bare-root..... 1.00 .75

Let us quote on your needs.

J. A. WEDDINGTON & SON

4414 Holston Dr. Knoxville, Tenn.

Phone 3-4417

TOP-QUALITY FLOWERING SHRUBS AND TREES AVAILABLE FOR IMMEDIATE DELIVERY PLACE RESERVATION ORDER EARLY

Dos. 100
Hydrangea petiolaris (climbing Hydrangea) \$15.00 \$100.00
Cydonias (flowering Quince), 3 and 4-yr.

Spitfire (pat. No. 330), crimson-red

Charming, shell-pink

Coral Beauty, coral

Stanford, geranium-red

Rowallane, scarlet

3 to 3 ft. 20.00 150.00

Knap Hill (dwarf), vermilion-red, 18 to 24 ins. 20.00 150.00

Nivalia, white, 2 to 3 ft. 35.00 190.00

Pyracantha Kasan (hardy, heavy fruiting), qt. cans. 12.00 85.00

Foraythias

Spring Glory, 2 to 3 ft. 6.50 45.00

3 to 4 ft. 8.00 55.00

Lynwood Gold, 2 to 3 ft. 7.25 50.00

3 to 4 ft. 8.50 60.00

Beatrice Farrand (new), 2 to 3 ft. 11.00 75.00

3 to 4 ft. 13.00 85.00

Malus Crimson Brilliant, pat. No. 939, 5 to 6 ft. 35.00 230.00

6 to 7 ft. 50.00 390.00

Azalea mucronulata (well budded); fine for sales lot

12 to 15 ins. 18.00 125.00

15 to 18 ins. 22.50 180.00

18 to 24 ins. 32.50 275.00

Berberis Crisp, Pygmy (new red dwarf Barberry)

6 to 8 ins. 8.50 60.00

Ilex convexa, bushy plants in gallon cans; 15 to 18 ins. 15.00 100.00

Azalea mollis, 8 to 10 ins. 7.25 50.00

Cornus florida (bushy plants), 2½ to 3 ft. 15.00 100.00

Deutzia gracilis, 15 to 18 ins. 7.50 45.00

Hydrangea domotol, double pink, heavy 2-yr. 12.00 80.00

Prunus pissardi, 5 to 6 ft. 19.00 125.00

Philadelphus (French Mock Orange)

Atlas, 2 to 4 ft. 8.00 50.00

Belle Etoile, 2 to 4 ft. 8.00 50.00

Enchantment (double), 2 to 4 ft. 8.00 50.00

Innocence, 3 to 4 ft. 8.00 50.00

Virginalis (dbl.), 3 to 4 ft. 8.00 50.00

Salix

French Pussy Willow, 2 to 4 ft. 8.50 60.00

Saliamoni (new hardy Weeping Willow), 8 to 10 ft. 20.00 150.00

Tamarix Pk. Cascade, 3 to 4 ft. 13.00 85.00

Viburnums

Burkwoodi, 18 to 24 ins. 10.00 65.00

2 to 3 ft. 15.00 100.00

3 to 4 ft. 20.00 150.00

Caricephalum, pat. No. 776, 15 to 18 ins. 20.00 150.00

18 to 24 ins. 25.00 190.00

2 to 3 ft. 30.00 225.00

3 to 4 ft. 35.00 280.00

Weigela

Bristol Ruby, pat. No. 492, 2 to 3 ft. 11.00 75.00

3 to 4 ft. 12.00 80.00

Vaniceki, 2 to 3 ft. 8.50 60.00

3 to 4 ft. 10.00 70.00

Calliocalyx purpurea (violet Jewel Berry), 3 to 3 ft. 12.00 85.00

PERENNIAL PLANTS AND GROUND COVERS

Baltica Ivy, 2½-in. pots. 4.75 25.00

Vinca Bowles var., 2½-in. pots. 5.25 35.00

Polygonum reynovtria 5.25 35.00

Plumbago larpenitiae 6.25 35.00

Iberis sempervirens 6.25 35.00

Roses, large No. 1 grade

Thor (largest hardy double red climber), pat. No. 387, 16.00 120.00

Gold Cup (1955 All-America Rose Selections Winner), yellow Floribunda P.R.R., 16.00 120.00

(6 plants at doz. rate; 25 plants at 100 rate.)

THE WAYSIDE GARDENS CO.

Mentor, O.

Phone Palmsville (Elmwood 7-7535)

ROOTED CUTTINGS FROM GREENHOUSE

Heeled-in in outside beds. Each

Foraythias Lynwood Gold, rooted cut.07

English Boxwood, rooted cuttings.07

American Boxwood, rooted cut.07

Cotoneaster microphylla, rooted cut.06

Nandina, 2½-in. pots, 4 to 8 ins. 12½

Ilex East Palatka, rooted cuttings.06

Ilex East Palatka, 2-in. pots.15

Ilex cassine, large-leaved; rooted cut.07

Ilex cassine, 2-in. pots.15

Ilex opaca femina, rooted cuttings (greenhouse)07

Cash, please.

BROSEMER NURSERY

R. 1, Box 197 Huntsville, Ala.

Pfizer Juniper, 2½-in. potted one year, 6 to 8 ins., shipped out of pots, \$15.00 per 100, \$150.00 per 1000, in pots here, you pick up. Approximately the following 2½-in. pots:

500 Keteleer Juniper, 1-yr., 6 to 8 ins., 20c;

300 Keteleer Juniper, 2-yr., 12 to 18 ins., 25c;

750 fastigiata Irish Juniper, 6 ins.; 1300 Buxus sempervirens, 5 ins., 15c; 500 Photinia serrulata, 7 to 12 ins., 20c; 1500 Photinia serrulata, 3 to 5 ins., 15c. Pots not included except where specified. Cash with order earns 2 per cent discount; otherwise 25 per cent cash with order and balance before shipment.

Harwell Nursery, Van Buren, Ark.

WHOLESALE NURSERY-GROWN SEEDLINGS, SPRING 1958

Each 100 rate 1000

Acer platanoides (Norway Maple) 3½c 3c

1-yr. seedlings

Albizia julibrissin (Mimosa) 4c 2½c

6 to 12 ins. 4c 2½c

12 to 18 ins. 5c 3c

18 to 24 ins. 7c 5c

Alnus cordata (Italian Alder) 9c 6c

12 to 18 ins. 9c 6c

18 to 24 ins. 12c 9c

2 to 3 ft. 15c 12c

Celastrus orbiculatus (Chinese Bittersweet)

No. 1, heavy, 18 to 24 ins. 10c 8c

Extra heavy, 2 to 3 ft. 15c 12c

Cercis canadensis (Redbud) 6c 4c

6 to 12 ins. 6c 4c

12 to 18 ins. 7½c 6c

Fraxinus ornus (Flowering Ash) 6c 5c

6 to 12 ins. 6c 5c

12 to 18 ins. 8c 6c

18 to 24 ins. 12c 10c

2 to 3 ft. 15c 13c

Juglans nigra (Black Walnut) 7c 5c

12 to 18 ins. 7c 5c

Lonicera maackii podocarpa (Amur Honeysuckle) 5c 4c

6 to 12 ins. 5c 4c

Malus sieboldii (Toringo Crab Apple) 5c 3c

6 to 12 ins. 5c 3c

12 to 18 ins. 7c 5c

Nyssa sylvatica (Black Gum) 5c 3c

4 to 6 ins. 5c 3c

6 to 8 ins. 7c 5c

8 to 12 ins. 7c 5c

Pinus thunbergii (Japanese Black Pine) 7c 5c

4 to 6 ins., 2-yr. 9c 7c

6 to 8 ins., 2-yr. 9c 7c

Prunus americana (American Plum) 4½c 4c

No. 1, 3/16 to ¼-in. cal. 4½c 4c

¼-in. cal. and up. 4½c 4c

Per 100 Per 1000

Prunus cerasifera (Myrobalan) \$4.20 \$37.00

No. 1, ¼-in. and up. \$4.20 \$37.00

No. 2, 3/16 to ¼-in. cal. 4.00 35.00

No. 3, 2/16 to 3/16-in. cal. 3.10 27.00

About 2/16-in. cal. 2.30 20.00

Prunus mahaleb (same sizes and prices as Myrobalan)

Each 100 rate 1000

Prunus tomentosa (Nanking Cherry) 5c 3c

4 to 6 ins. 5c 3c

Pueraria thunbergiana (Kudzu) 6c 5c

No. 1, ¼-in. and up. 6c 5c

No. 2, 3/16 to ¼-in. cal. 4c 2½c

Syringa vulgaris (Lilac) 4c 2½c

2 to 4 ins. 4c 2½c

4 to 6 ins. 6c 4c

Ulmus parvifolia (True Chinese Elm)

4 to 6 ins. 4c 3c

6 to 12 ins. 9c 7c

Please note: This list is accurate as of January 30, 1958. Many items will be snapped up quickly. Please book without delay to avoid disappointment.

Plants are tied 25 to the bundle, so please order in units of 25. 25 to 300 take the 100 rate; 300 or more take the 1000 rate. Prices are F.O.B. Elsberry—any necessary crates at cost.

All plants offered are grown in our own nursery. None are collected and we broker no plants.

FORREST KEELING NURSERY

Elsberry, Mo.

FORSYTHIA ARNOLD'S DWARF

24x30 ins., bushy, 60c.

PYRAMIDAL ENGLISH PRIVET

(Ligustrum vulgare pyramidale)

Semi-evergreen; hardy. 24x30 ins., 50c.

COTONEASTER MULTIFLORA

2-yr. transplants, 2x3 ft., \$1.00.

Terms: Cash with order, please. No packing charges.

TONICA NURSERIES, TONICA, ILL.

SPRING 1958 WHOLESALE PRICE LIST

LINEERS, 2-yr., bedded stock 100 1000
Juniperus glauca hetzi,
 12 to 14 ins. \$25.00 \$200.00
 Juniper, Andorra,
 10 to 12 ins. 22.00 180.00
 Ilex rotundifolia, 6 to 8 ins. 15.00 100.00
 Ilex rotundifolia, 8 to 10 ins. 17.00 125.00
 Unnamed *Rhododendron* hybrids of hardy
 ponticum, well-branched catawbiensis parent-
 age. Good foliage with firm, lightweight ball,
 twice transplanted, bed-grown. Jap. beetle
 certified.
 4 to 6 ins. \$25.00 per 100, \$200.00 per 1000
 6 to 8 ins. 30.00 per 100, 250.00 per 1000
 250 plants at 1000 rate. Stock offered sub-
 ject to prior sale. Free packing, F.O.B.
 Willoughby, O. Terms: 2 per cent discount
 for cash with order, or by express C.O.D.
 Open Sundays. Visitors welcome.
 Balled and burlapped; well-sheared stock.
 Pick up at nursery.

JUNIPERUS GLAUCA HETZI
 Each, 1 to 10 10 to 25 25 up
 15 to 24 ins. B&B, \$2.25 \$2.00 \$1.75
ILEX ROTUNDIFOLIA
 14 to 18 ins. B&B, 2.00 1.75 1.50
LITTLE ACRES NURSERY
 R. D. 2, Chardon Rd. Willoughby, O.

RED-FLOWERING DOGWOOD
 (*Cornus florida rubra*)
 7 to 8 ft. B&B, lots of bloom buds. \$6.00
 8 to 7 ft. B&B, lots of bloom buds. 5.00
 6 to 6 ft. B&B, lots of bloom buds. 4.00
 5 to 4 ft. B&B, lots of bloom buds. 3.50
 4 to 4 ft. B&B, lots of bloom buds. 2.00
 3 to 36 ins. B&B, lots of bloom buds. 1.50
WHITE-FLOWERING DOGWOOD
 (*Cornus florida*)
 6 to 8 ft. B&B, \$4.00; 5 to 6 ft. B&B,
 \$3.00; 4 to 5 ft. B&B, \$2.50; 3 to 4 ft. B&B,
 \$2.00.

GRAPE MYRTLE
 Watermelon red, pink, purple,
 2-yr. and 3-yr. transplants
 4 to 5 ft., 3-yr., 75c; 3 to 4 ft., 3-yr., 50c;
 2 to 3 ft., 3-yr., 40c; 2 to 3 ft., 2-yr., 30c;
 18 to 24 ins., 2-yr., 25c. Dwarf blue,
 2-yr., 25c.
 Write or phone for best prices on assorted
SHADE TREES, including thornless Honey
 Locust, Pin Oak, Sugar Maple, Silver Maple,
 Chinese Elm, Redbud and Sweet Gum, in
 many sizes and quantity lots, all nursery
 grown.

SHAHAN NURSERIES
 Tullahoma, Tenn.

LINING-OUT SHRUBS
1-YR. ROOTED CUTTINGS

	Per 100
500 Zabel Honeysuckle, 4 to 6 ins.	\$ 5.00
2000 Zabel Honeysuckle, 6 to 9 ins.	6.00
700 Zabel Honeysuckle, 9 to 12 ins.	7.00
1500 Zabel Honeysuckle, 12 to 15 ins.	8.00
400 Zabel Honeysuckle, 15 to 18 ins.	10.00
200 Morrow Honeysuckle, 12 to 15 ins.	8.00
275 Fragrant Honeysuckle, 9 to 12 ins.	8.00
200 Cornus sibirica, 6 to 9 ins.	8.00
500 Forsythia intermedia, 15 to 18 ins.	6.00
225 Forsythia Spring Glory, 12 to 15 ins.	8.00
375 Purple Lilac, trans., 9 to 12 ins.	8.00
150 Philadelphus virginialis, 6 to 9 ins.	8.00
775 Lodense Privet, 4 to 6 ins.	5.00
1800 Amur River Privet, 12 to 15 ins.	5.00
3000 Polish Privet, 9 to 12 ins.	3.00
175 Spiraea vanhouttei, 12 to 15 ins.	8.00
100 Symphoricarpos chenaultii, 9 to 12 ins.	7.00
350 Basket Willow (Tying), 18 to 24 ins.	6.00
200 Lombardy Poplar, 2 to 3 ft.	8.00

Cash with order or free packing
HENRY NURSERIES, HENRY, ILL.

SHRUBS
ALTHAEAS, NAMED VARIETIES
 2 to 3 ft. 65c
 3 to 4 ft. 75c
DEUTZIA GRACILIS
 15 to 18 ins. 50c
 18 to 24 ins. 60c
FORSYTHIA SPECTABILIS
 2 to 3 ft. 50c
 3 to 4 ft. 60c
HONEYUCKE, ZABEL
 2 to 3 ft. 55c
 3 to 4 ft. 65c
SPIRAEA ANTHONY WATERER
 15 to 18 ins. 50c
 18 to 24 ins. 60c
TAMARIX AMYRENSIS AND HISPIDA
 2 to 3 ft. 60c
 3 to 4 ft. 75c
 4 to 5 ft. 95c
PHILADELPHUS VIRGINALIS
 2 to 3 ft. 60c
 3 to 4 ft. 70c
FRENCH NURSERY CO.
 Phone 5331 Clyde, O.

FORSYTHIA BEATRIX FARRAND
 Strong plants out of 2 1/4-in. plastic pots.
 \$25.00 per 100, \$225.00 per 1000.
 No additional charge for packing.
 F.O.B. Chino, Calif.
 Minimum order 100 plants.
DESCANSO DISTRIBUTORS, INC.
 12492 Pipeline Chino, Calif.

GREEN ASH, SURPLUS
 18 to 24 ins., 2-yr., root-pruned, \$15.00
 per 1000. Over 5000, \$12.00.
WESTERN EVERGREENS
 Route 1 Golden, Colo.

SHRUBS AND TREES 100
 Forsythias, intermedia and spectabilis,
 18 to 24 ins. \$30.00
 2 to 3 ft. 40.00
 4 to 5 ft. 55.00
 Lombardy Poplar, 6 to 8 ft. 75.00
 Green Barberry, 18 to 24 ins. 30.00
 Spiraea vanhouttei, 15 to 18 ins. 25.00
 Spiraea vanhouttei, 2 to 3 ft. 40.00
 Hydrangea P. G., 18 to 24 ins. 40.00
 Hydrangea P. G., 3 to 4 ft. 60.00
 Weigela rosea, 2 to 3 ft. 40.00
 Weigela rosea, 3 to 4 ft. 50.00
 Weigela rosea, 4 to 5 ft. 60.00
 Pink-flowering Honeysuckle, 4 to 5 ft. 60.00
 Deutzias, 3 to 4 ft. 50.00
 Philadelphus coronarius, 18 to 24 ins. 30.00
 Coral Berry, 2 to 3 ft. 40.00
 Red Osier Dogwood, 12 to 18 ins. 20.00
 Red Osier Dogwood, 4 to 5 ft. 50.00
 Double-flring, Viburnum, 15 to 18 ins. 50.00

ENNIS FLORISTS, NURSERY DIVISION
 P. O. Box 452 Steubenville, O.

B&B STOCK
 3000 Juniperus pfitzeriana, 18 to 24 ins. \$2.00.
 1000 Berckmans' Golden Arborvitae, 15 to 18
 ins. \$1.50.
 1000 globe Arborvitae, 15 to 18 ins. \$1.50.
 1000 Junipers, grafted; ketelerii, columnaria
 and cupressifolia, 2 to 3 ft. \$2.00.
 500 Viburnum carlesii, 2 to 3 ft. \$2.00.
 1000 Osmanthus americanus, 2 to 3 ft. \$2.00.
 500 white Dogwood, 3 to 4 ft. \$2.00.
 500 pink Dogwood, 3 to 4 ft. \$2.50.

BARE-ROOT STOCK
 1000 red-flowering Peach, transplants, 3 to 4
 ins., 90c.
 500 Euonymus alatus, 18 to 24 ins., 90c.
 3000 Lonicera fragrans, transplants, 3 to 4
 ft., 40c.

LINING-OUT STOCK
 5000 Juniperus pfitzeriana, 2-yr., field, 25c.
 5000 Nandinas, 2-in. pots, 10c.
 Ask for our complete list.
NICK'S NURSERY, ANCHORAGE, KY.

WELL-GRADED SHRUBS
 Available for immediate delivery.
 Barberry, red-leaved, 2-yr. trans-
 planted, 12 to 15 ins. bushy. 22c
 9 to 12 ins. 15c
 Buddleia Charming (pink), No. 1. 25c
 Buddleia hartwegii (purple), No. 1. 25c
 Deutzia gracilis, 12 to 15 ins. 25c
 Hydrangea P.G., 12 to 18 ins. 25c
 Philadelphus aureus, 2 to 12 ins. 25c
 Philadelphus virginialis, 2 to 3 ft. 35c
 Spiraea Anthony Waterer, 18 to 24 ins. 35c
 Spiraea froebeli, 2 to 3 ft. 25c
 Viburnum plicatum (Japanese Snow-
 ball), 2 to 3 ft. 75c
 18 to 24 ins. 60c
 Send for list of other offerings.

CONDON'S WHOLESALE NURSERY
 North Collins, N. Y.

FLOWERING TREES
 Crab Apples, 40 varieties; 1-yr. trees.
 Limited number. 7 to 8 ft., reset at one
 year. Descriptive booklet available.
 Crataegus Winter King,
 5 to 6 ft. white, \$1.50.
 Magnolias, soulangeana and nigra,
 4 to 5 ft., heavy, B&B, \$5.00.
 5 to 6 ft., heavy, B&B, \$6.00.
 6 to 8 ft., heavy, B&B, \$7.00.
 Cornus kousa chinensis, seedlings.
 5 to 6 ft., B&B, \$3.00.
 6 to 8 ft., B&B, \$7.00.
 Cydonia Crispum Beauty.
 A brilliant red, late, long blooming period.
 Heavy, 6 to 8 ft., B&B, \$6.00.
SIMPSON ORCHARD CO., INC.
 1504 Wheatland Rd. Vincennes, Ind.
 Phone 489-3

EVERGREENS, WHOLESALE
 A wide selection of Evergreen seedlings
 and transplants, also hardy shrubs, shade
 trees, ornamentals, shrubs and flowering
 trees. Our selected seed with good heredity
 and scientific culture assures healthy trees
 with heavy roots for rapid growth.
 Munser offers quality trees at a price made
 possible through a large quantity production.
 Our cold storage permits late shipments.
 No charge for packing and boxing. Ask for
 complete catalog and wholesale planting
 lists.

Our ad, appearing on pages 32 and 33 of
 this issue, shows a partial list of seedlings
 and transplants.

MUNSER FORESTS
 Box 16-CC Indiana, Pa.

HYPERICUMS
(GOLDEN ST. JOHN'S-WORT)
 Most Hypericums are loose and drooping.
 This very hardy shrub is a stiff, upright
 growing dwarf jewel to about 3 ft. at matur-
 ity. The bright yellow flowers are in contin-
 uous bloom for several weeks at a time. Made
 to order where a dwarf, summer-flowering
 shrub is needed.

	Per 100
12 to 18 ins.	\$22.50
18 to 24 ins.	37.50
2 to 2 1/2 ft.	45.00

THE HOME NURSERY
 Central Illinois Pioneer Nursery—Since 1887
 LaFayette, Ill.
 On Route 17, In Stark County.

Quercus rubra (Red Oak), root-pruned,
 field specimens, 2 to 8-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

SCOTCH PINE SEEDLINGS
 For Christmas trees, 2-yr.-old, 4 to 8 ins.
 Per 1000 Per 10,000
 German strain \$15.00 \$12.50
 French strain 15.00 12.50
 Riga strain 15.00 12.50
TERMS: 50 per cent down, balance C.O.D.
CORNELIUS RYNSBURGER
 R. R. 3 Hudsonville, Mich.

MIMOSAS
 6 to 8 ft., 85c each, \$75.00 per 100.
 5 to 6 ft., 65c each, \$50.00 per 100.
 Have some 3000 2 and 3-yr.-old.
 No charge for packing by truck, otherwise
 we charge cost.

PIGGOTT NURSERY CO.
 Piggott, Ark.

COLLECTED STOCK.
 Quality, open field-grown.
 Sugar and rubrum Maples, Pin Oak, Chi-
 nese Elm, White Birch, Sycamore, white
 Dogwood, Vinca (Myrtle). Phone S. Bend,
 Central 33318.
VAUGHAN'S NURSERY & GHSE. CO.
 15910 Cleveland Rd. Granger, Ind.

SCOTCH PINE SEEDLINGS
 2-yr.-old, 4 to 8 ins.
 \$20.00 per 1000.
 Write for quantity discounts.

COOKS NURSERY
 Box 238 Rimerburg, Pa.

VIBURNUM CARLESII
 Seedlings that have been bedded 2 years.
 Excellent for lining out or for pre-wrapping
 for cash and carry. In lots of 25 or more,
 12 to 15 ins., 60c; 15 to 18 ins., 75c.

HILLENMEYER NURSERIES
 Lexington, Ky.

SHRUBS
 Wide assortment of varieties and sizes.
 Ask for wholesale list.
WAYNESBORO NURSERIES
 Waynesboro, Va.

Classified Ads Offer Maximum
 Results at Minimum Cost.

TAXUS
QUALITY ROOTED CUTTINGS
 These are made 8 ins. and are heavy cut-
 tings with a wonderful root system.

	Per 100	Per 1000
Taxus cuspidata	\$10.00	\$ 85.00
Taxus cuspidata capitata, tips 12.00	110.00	
Taxus andersonii	11.00	100.00
Taxus sieboldii	11.00	100.00
Taxus hickii	11.00	100.00
Taxus repandens	13.00	120.00
Taxus cuspidata, 1-yr., T.	17.50	
2-yr., T.	25.00	
3-yr., T. 6 to 8 ins.	30.00	
Taxus cuspidata capitata, tips, 1-yr., T.	20.00	

Cash with order earns free packing.
 We pay express charges on rooted cuttings.
R. D. 2 LINCOLN NURSERIES
 Grand Rapids 4, Mich.

LINERS IN TAXUS (YEWES)
 Extra heavy, 2-yr.-old, transplanted, field-
 grown, certified stock.
 Ship beetle zone, outside beetle zone.
HATFIELDI, upright
MOONII, upright
HICKSI, upright
CUSPIDATA CAPITATA, upright; from
 leaders
CUSPIDATA, spring
 \$40.00 per 100, \$350.00 per 1000.
 3-yr.-old THAYERAE, spreading,
 3-yr.-old Densiformis, spreading,
 \$45.00 per 100, \$400.00 per 1000.
 Free packing. Sample on request.
LARRY'S NURSERIES, INC.
 960 Reservoir Ave. Cranston 10, R. I.

TAXUS, ROOTED CUTTINGS
 \$11.00 per 100, \$100.00 per 1000.
 6000 Hicksi 10,000 Cuspidati
 2000 Cuspidata nana 2,000 Hatfieldi
 1,000 Browni
 Terms: 3 per cent cash with order, 2 per
 cent 10 days, net 30 days. F.O.B. nursery.
 Shipment June or later.

VAN TOL NURSERIES
 P. O. Box 116 Teaticket, Mass.

HEAVY ROOTED TAXUS CUTTINGS
 20,000 Hicks \$ 75.00 per 1000
 2,000 Hatfield 100.00 per 1000
 50,000 cuspidata 75.00 per 1000
 1000 white Dogwood, B&B, 2 to 3 ft., \$1.50
 each; 1000 3 to 4 ft., \$1.85 each.

CLARKSBURG NURSERY & CENTER
 Clarksburg, Ind.

TAXUS CAPITATA
 15,000 seedlings, 3-yr., strong,
 the best we have seen,
 \$15.00 per 100, \$120.00 per 1000.
 Packing free for net cash.

COLE NURSERY CO.
 2004 W. Jackson Painesville, O.

TAXUS CAPITATA
 Strong 2-yr. seedlings, seeds sown lightly,
 plants grown with plenty of room in beds.
 \$15.00 per 100, \$125.00 per 1000.
C. HOOGENDOORN NURSERIES
 Turner Road Newport, R. I.

TAXUS—Continued

TAXUS CAPITATA (YEW)
1700 4-yr. transplants, 10 ins. up, 60c each.
THE HOME NURSERY
C. S. Ingels Lafayette, Ill.
Since 1887, On Route 17, In Stark County

TRITOMAS

TRITOMA PFITZERI (RED-HOT POKER)
No seedlings. True all fall blooming. The exclamation point of the garden.
100 strong plants, \$15.00; 250 strong plants, \$30.00; 1000 strong plants, \$100.00. Larger quantities, ask for price.
JOHN M. BELZINGA
P. O. Box 142 Benton Harbor, Mich.

VIBURNUMS

VIBURNUM CARLESI
Per 100 Per 1000
2-yr. seedlings, 4 to 6 ins. \$15.00 \$125.00
2-yr. seedlings, 6 to 8 ins. 20.00 175.00
2-yr. seedlings, 8 to 12 ins. 30.00 350.00
C. HOOGENDOORN NURSERIES
Turner Road Newport, R. I.

VINCAS

Vinca Minor, the blues, with pleasing variations, an occasional double, etc. Bare roots, at least 500 leads, equal to 100 plants, \$4.00 prepaid.

Golden Acres Nursery, Shipshewana, Ind.

Small Ads Do Great Things in the American Nurseryman Classified Section.

WANTED

TO GROW NURSERY STOCK
FOR RELIABLE FIRM.
REASONABLE TERMS.
IRRIGATION AND STORAGE AVAILABLE

LORETTO BROS. FRUIT AND NURSERY FARMS

P. O. Box 57 North Collins, N. Y.
Wanted—Nursery-grown, true-to-name material: Norway Maple, Pin Oak, London Planetree, thornless Honey Locust, Washington Hawthorn. Size 3 to 4 ft. Several thousand of each. Please quote cash prices, stating sizes, N. Tischler, R. D., Jamesburg, N. J.

WANTED

Nursery-grown material for spring.
70 Platanus occidentalis, 1 1/2 to 2-in. bare root

171 Quercus coccinea, 2 to 2 1/2-in., B&B
223 Quercus palustris, 2 to 2 1/2-in., B&B
223 Tilia cordata, 2 to 2 1/2-in., B&B
2 Quercus velutina, 2 to 2 1/2-in., B&B
18 Platanus acerifolia, 1 1/2 to 2-in., bare-root
3 Gleditsia, triacanthos or incisa, 5 to 6-in. cal., 18 to 20 ft. high, B&B
4 Pinus strobus, 5 to 6-in. cal., 14 to 16 ft. high, B&B
1 Pinus strobus, 6 to 7-in. cal., 20 to 22 ft. high, B&B

Please quote on smaller quantities if you cannot supply all.
OAK PARK NURSERIES, INC.
East Patchogue, L. I., N. Y.

WANTED

Lining-out stock of Canoe Birch (Betula papyrifera), European White Birch (Betula alba).
THEODORE KLEIN NURSERIES
Crestwood, Ky.

More customers for you!
Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

CLASSIFIED ADS

SUPPLIES AND SUNDRIES

BURLAP

NEW BURLAP
100 to 125-yd. bolts or squares cut to size.
Heavyweight Medium wt. squares
burlap bolts Per 100 pieces
36-in. \$0.21 1/2 yd. 16x16 ins. \$ 3.60
40-in.22 1/2 yd. 20x20 ins. 5.30
45-in.24 yd. 24x24 ins. 7.80
48-in.26 yd. 27x27 ins. 9.40
54-in.29 yd. 40x40 ins. 20.20
60-in.32 1/2 yd. 30x30 ins. 11.40
72-in.40 1/2 yd. 36x36 ins. 17.20
(Other sizes on request. Lightweight erosion cloths, many widths; paper squares, Polyethylene, twine, Saran mesh slats. Minimum order \$50.00. Freight prepaid if check sent with order.)

SEAMAN BAG CO.
Growers Service Div.
2512 S. Damen Ave. Chicago 8, Ill.

CANE STAKES

LIGHTNING SERVICE
ON
FRESHLY IMPORTED
JAPANESE BAMBOO CANE STAKES
from
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices
and generous quantity discounts.
McHUTCHISON & CO.
695 Grand Ave. Ridgefield, N. J.
2505 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES
For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

FERTILIZERS

PETERS SPECIAL
CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.
SOLUBLE FERTILIZERS
21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, \$6.50 per 25-lb. bag.
\$22.00 for 4 25-lb. bags.
20-20-20 General Purpose Feed
\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.
LONG-LIFE FEEDS
13-6-6 Organic Special Du Pont Uramite
Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.
\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.
Du Pont Uramite, 33 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.
Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.
FRITTED POTASH
Contains 32 per cent K₂O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 25 bags.

Write for complete price list.
Freight prepaid, east of Mississippi, on all orders totaling 300 lbs. or more of above materials. Less than 300 lbs., F.O.B. Allentown, Pa.
ROBERT B. PETERS CO.
739 North 7th St. Allentown, Pa.

FLATS

CYPRESS FLATS
Shipped from Williamston, N. C.
WHITE CEDAR FLATS
Shipped from Cook, Minn.

Order by No.	Price Per	Cy- Cedar press	Wt. per	Wt.
No. 1, 14x20x2 1/2-in.	\$27.00	320	400	500
No. 2, 14x20x3-in.	31.50	400	500	600
No. 3, 12x16x2 1/2-in.	20.75	260	325	375
No. 4, 12x16x3-in.	24.50	275	345	400
No. 5, 14x16x2 1/2-in.	23.25	275	345	400
No. 6, 14x16x3-in.	27.50	290	365	425
No. 7, 15x22x2 1/2-in.	30.75	380	475	535
No. 8, 15x22x3-in.	35.50	425	535	600
No. 9, 11 1/4 x22 1/2 x3 1/4-in.	25.00	320	400	500
No. 10, 11 1/4 x22 1/2 x3 1/4-in.	29.00	400	500	600
No. 11, 14x16x5-in.	32.75	450	560	650
No. 12, 5x11x5-in.	16.75	160	200	270
No. 13, 5x11x5-in.	19.00	215	270	340

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)
All other sizes quoted on request.
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.
The above sizes are inside measurements. Bottoms and sides are 1/2-in. thick and ends are 3/4-in. thick. All material surfaced on one side.
Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/2c per end piece for the first 1000 ends; 1/4c per end thereafter.
Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamston, N. C.
Shipped knocked-down in units of 25, F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.
H. C. HILL & SONS
Manufacturers of flats, boxes, wood turnings and specialties.
Phone North 6-3348 Cook, Minn.
Phone SWift 2-4127, Williamston, N. C.

Above prices apply to both Cypress and Cedar.

5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

The above sizes are inside measurements. Bottoms and sides are 1/2-in. thick and ends are 3/4-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/2c per end piece for the first 1000 ends; 1/4c per end thereafter.

Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamston, N. C.

Shipped knocked-down in units of 25, F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.

H. C. HILL & SONS
Manufacturers of flats, boxes, wood turnings and specialties.

Phone North 6-3348 Cook, Minn.
Phone SWift 2-4127, Williamston, N. C.

REDWOOD FLATS, K.D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x16x3 ins. Inside measure. \$35.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
50 pcs. to bundle, 6 ft., \$5.50 per bdl.
Ship same day. Cash with order, please.

YOHO & HOOKER, YOUNGSTOWN 2, O.

FLOCKING SUPPLIES

FLOC-FLO
Supplies, equipment
and free "How to Do It."
FLOC-FLO ENGINEERING DESIGN
5802 Olson Highway Minneapolis, Minn.
Classified Ads Offer Maximum Results at Minimum Cost.

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FINEST PLAIN OR PRINTED wood labels.
BENJ. CHASE CO., VII. Sta., DERRY, N. H.

DAHLIA OR TREE LABELS

Price per carton
Plain Painted
3 1/4 x 1/2 ins., notched, not wired. \$3.00 \$3.40
3 1/4 x 1/2 ins., wired (copper) . . . 2.95 4.10

POT LABELS

4x1/2 ins. (cartons 1000 each) . . . 3.95 4.40
5x1/2 ins. (cartons 1000 each) . . . 4.30 5.10
6x1/2 ins. (cartons 1000 each) . . . 4.70 5.80

GARDEN STAKES

8x1/2 ins. (cartons 500 each) . . . \$3.60 4.40
10x1/2 ins. (cartons 500 each) . . . 4.20 5.10
8x1/2 ins. (cartons 250 each) . . . 3.00 3.40
10x1/2 ins. (cartons 250 each) . . . 3.30 3.90
12x1/2 ins. (cartons 100 each) . . . 2.90 3.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.
"We ship same day."

YOHO & HOOKER, YOUNGSTOWN 2, O.

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IVORY ORCHID BARK
For potting all Orchids.
1-cu. ft. bag, \$2.15; hobby bag, 65c.
2-cu. ft. bag, \$3.75; prof. bag, \$1.85.
3-cu. ft. bag, \$5.00.
100-lb. bag Hoof and Horn Meal, \$14.50.
All prices F.O.B., subject to change without notice.
List of ORCHID SUPPLIES upon request.
WRIGHTWOOD FLORAL CO., INC.
1420 Wrightwood Ave. Houston 8, Tex.

PLANT TUBS

UTILITY PLANT TUBS
Nurserymen's all-purpose tub, made from sturdy New England White Pine. Popular sizes, in green, white and white with gold bands.
F.O.B. N. H. or Chicago.
Complete listing and quantity discounts on request.
Sole Distributor.
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CALIFORNIA REDWOOD OUTGOWN TUB
The finest of California's Redwood, it's beauty enhanced by copper-coated brass bands, makes this a really DeLUXE MODEL for indoor and outdoor use, and a size for every purpose.

Write for complete listing.
Quantity discounts offered.
ALEC HENDERSON, INC.
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POLY. FILM SALE
Available on rolls in multiples of 100-ft. lengths, in the following widths: 36 ins., 48 ins., 54 ins., 72 ins., 108 ins.
2 1/2 mil. \$6.99 per 100 sq. ft.
4 mil. 1.95 per 100 sq. ft.
Quantities over 2000 sq. ft., write for discounts. Prepaid if check sent with order. Burlap, paper wraps, twines, shading materials.
SEAMAN BAG CO.
Growers Service Div.
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POLYETHYLENE FILM

Natural transparent and sun-resistant black.
 .002 mil., all rolls 200 ft. long.
 ft. x 200 ft. \$ 6.00 per roll
 ft. x 200 ft. 12.00 per roll
 .004 mil., all rolls 100 ft. long.
 ft. x 100 ft. \$ 5.00 per roll
 ft. x 100 ft. 7.00 per roll
 ft. x 100 ft. 11.00 per roll
 ft. x 100 ft. 15.00 per roll
 Minimum order 4 rolls.

Other sizes and mil. weights available up to 40 ft. Write for quotations.
 Freight prepaid on orders over \$100.00.
 Phone Baldwin 3-8277.

DAYTON NURSERY AND GARDEN SALES
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POLYETHYLENE FILM

Natural transparent, made from Du Pont Iathon, the amazing film for greenhouses.
 .004 mil., all rolls 100 ft. long.
 ft. wide by 100 ft. long. \$ 6.00 per roll
 ft. wide by 100 ft. long. 8.00 per roll
 ft. wide by 100 ft. long. 12.00 per roll
 ft. wide by 100 ft. long. 16.00 per roll
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 Send \$1.00 for liberal sample,
 4 ft. x 10 ft., postpaid.

Special deal for greenhouse construction.
 5 rolls to 9 rolls, 25 per cent discount.
 10 rolls or more, 33 1/2 per cent discount.
 "We ship same day."

YORO & HOOKER
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1 mil. in 200-ft. rolls, 36 ins. wide, \$5.96;
 1/4 in. wide, \$5.79; 10 1/2 in. wide, \$17.34;
 4 mil. in 100-ft. rolls, 36 ins. wide, \$6.18;
 1/4 in. wide, \$6.12; 12 1/2 in. wide, \$20.29.
 5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available.
 We pay freight if check is with order.

ROUGH BROS.
 223 Spring Grove Ave. Cincinnati 23, O.

Quick — Convenient — Cheap!
 Selling through the Classified Ads
 of the American Nurseryman.

RUBBER TUBING

Rubber tubing for guide wires, 3/16-in. inside dia. x 3/8-in. outside dia. 100-ft. coil, \$1.15 each, F.O.B. Middlefield, O.
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9,500 Active Nurserymen
 are in need of stock.
 List your offerings in the
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NO. 1 SPHAGNUM MOSS
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 JOSEPH JAMROS, CITY POINT, WIS.

Fresh, clean sphagnum moss, write or phone City Point 133 for our low prices on wire-bound bales in truckloads or cartlots.
 Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.
 Warrens Moss Co., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES
 50 pieces to bundle.
 1/2-in.-3 ft., pointed \$3.00 per bundle
 1/2-in.-4 ft., pointed 3.50 per bundle
 1/2-in.-5 ft., pointed 4.50 per bundle
 1/2-in.-6 ft., pointed 5.50 per bundle
 1/2-in.-7 ft., pointed 7.00 per bundle
 These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!
 YORO & HOOKER
 Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL
 GALVANIZED tree guying WIRE,
 HOSE for guy wire PADDING.
 Prices and samples sent on request.
 SCHUPP SUPPLY CO., WILMETTE, ILL.

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TWINE SALE
 Finest European quality.
 24 lbs., 3 and 4-ply Jute Twine \$0.58 lb.
 1, 2 or 3-ply finest Sisal Twine44 lb.
 Baler and Binder Twine43 lb.
 1-lb. to 50-lb. reels and balls, single and many end put up. Minimum order, \$40.00.
 Freight prepaid if check sent with order.
 Burlap, paper wraps, Poly. film, shading materials.

SEAMAN BAG CO.
 Growers Service Div.
 21 E. Damen Ave. Chicago 8, Ill.

BOOK REVIEWS

CAMELIAS ILLUSTRATED

Camellia fanciers will welcome the news of an enlarged and revised edition of "Camellias Illustrated, by Morrie L. Sharp, sponsored by the Oregon Camellia Society and published by Western Trail Publishers, at \$5, spiral bound in heavy paper covers. There is also a cloth-bound edition at \$6.50.

The revised edition contains more detailed information on the care of camellias outdoors and under glass in the cooler areas of the country. The book contains articles of all phases of the culture of the camellia, as well as descriptions of popular hybrids and species, varietal name clarification and new variety descriptions.

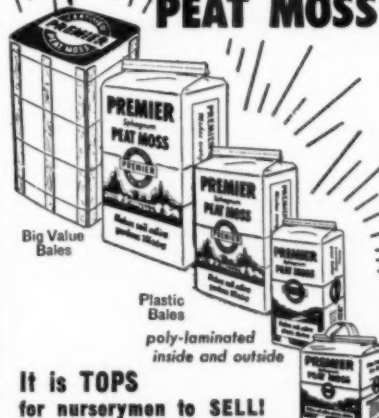
The 160-page book contains 555 illustrations, of which 383 picture blooms, 99 of them in full natural color, while the remaining 172 illustrations accompany instructions on the various cultural matters pertaining to the plants.

PICTORIAL ENCYCLOPEDIA

The greatly increasing interest in so-called green plants for dish gardens and other indoor uses has led to the publication of a number of books and booklets about their care and identification. The culmination of these is the big volume, "Exotica," which amply justifies the subtitle of "Pictorial Cyclopedic of Indoor Plants," containing 4,000 illustrations. The book was prepared by Alfred Byrd Graf and published by the Roehrs Co., which long has been a leading grower of these plants.

The book contains 644 pages, 8 1/2 x 11 inches, and just enumerating the contents would show how valuable a volume it is. The plant illustrations, arranged by families, occupy 447 pages, nine plants usually being depicted on a page. But there is much more. A dozen pages are devoted to a discussion of plants in the home and in arrangements, and there are many illustrations in this section. Briefly discussed, also, are methods of propagation, insect enemies, characteristics of plant families and related topics. There are such valuable features as a glossary of botanical terms, nine pages listing common names of house plants, a key to care of plants indoors and a plant geography section, including

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PEAT MOSSIt is TOPS
for nurserymen to SELL!

Premier's tightly filled packages are poly-laminated inside and outside for clean, easy handling—can even be stored outdoors.

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NEED FOUR GOOD MEN

1. Landscape architect and salesman.
 2. Assistant manager for sales at garden center.
 3. Nursery superintendent and maintenance man.
 4. Landscape foreman.
- All above men must be experienced and above average in initiative, ambition and workmanship. Good salary; permanent, immediate employment. Give full details and send photo in first letter.

HALLA NURSERY
4917 Eden Ave.
Minneapolis, Minn.

HELP WANTED

WHOLESALE SALESMAN

For Ohio, Michigan, Indiana and Kentucky, already calling on nurseries and greenhouses to sell horticultural and nursery supplies. Liberal commission. Reply:

DAYTON NURSERY &
GARDEN SALES
P. O. Box 763 Dayton 1, O.

HELP WANTED

Landscape estimator for commercial and large jobs. Experience needed to qualify. Reply to:

QUAKER CITY
TREE SURGEONS, INC.
6325 Chew St. Philadelphia 38, Pa.
Phone: Victor 8-4600

HELP WANTED

OFFICE MANAGER

Male, age 25 to 40, experienced in landscape business, office procedures and machines. Established business progressing; new building; benefits; opportunities. Write age, experience, pertinent information.

MONROE LANDSCAPE SERVICE
25 Ford St. Rochester, N. Y.

HELP WANTED

Experienced sales shop and sales ground manager. Must have thorough knowledge of business. Send replies to Box 486, care of American Nurseryman.

HELP WANTED

Landscape foreman, or willing to train to become foreman, for year-round position with landscape contractor. Large city in central Pennsylvania. Give complete reply, references, experience, desires. Address Box 480, care of American Nurseryman.

FOR SALE—Nursery and florists' business. Continuous ownership for over 35 years. Within city limits. No competition in large county. Good residence on place. Physically unable to continue. WHITE'S NURSERY & FLORIST, Meeker, Colo.

HELP WANTED

LIVE, WORK and PLAY in COLORFUL COLORADO

Oldest, most respected nursery in Rocky mountain area needs 10 experienced commission landscape salesmen at once. Nursery in same location since 1886. Member of A. A. N. over 30 years.

Year-round selling (our top man earned \$1,000 a month for October, November and December). Large, complete line of container-grown stock for summer sales; bare-root and B&B material for spring, fall and winter.

Many leads furnished in one of the fastest-growing, prosperous cities in U. S. (expect minimum of 60,000 more new homes by 1965).

Must have own car and be experienced in drawing and presenting landscape plans. Send picture and resume, including experience, average sales of preceding 2 years and references.

W. W. WILMORE NURSERIES
Box 382 Denver 1, Colo.

SITUATION WANTED

Experienced nurseryman in business nearly 25 years, familiar with all phases of this business, would be willing to work on commission based on volume of business, or straight draw and bonus. Can be a great asset to a retail operation. Familiar with buying, merchandising, advertising and handling of personnel. Would be willing to line up with an aggressive organization as I know I can be an asset to any operation requiring one of my ability. Single, age 50. Can furnish best of references. Write to Box 446, care of American Nurseryman.

SITUATION WANTED

Landscape designer (residential, commercial, institutional) wants permanent job with progressive firm in New York or southern New England. 20 years' experience all phases retail nursery business. Prefers to direct own jobs in the field. Small draw against straight commission. Please write giving general setup and potentialities.

ALBAN YOUNG
Wilton, Conn.

SITUATION WANTED

Thirteen years' experience in landscape sales, personnel hiring and management of retail salesmen. Will work on draw and bonus or commission basis. Would like connection with an aggressive organization in retail or wholesale sales. Write Box 485, care of American Nurseryman.

SITUATION WANTED

Thinking of a change? Tell potential employers about your abilities by using an ad in this department. The cost to reach the widest readership in the industry is only \$4.50 per inch.

FOR SALE—Heavy, tin drums with covers 18x13 ins., \$35.00 per 100. Can be cut in halves to make two planters. GUST WERTER, Rt. 3, Brainerd, Minn.

SITUATION WANTED

LANDSCAPE GARDENER AND NURSERYMAN

Age 43. 26 years of experience in landscape contracting, planning, grafting, propagation and forming of plants, etc. Most thorough training in Germany and operated own nursery and landscape contracting business in Israel for 18 years. Just arrived in U. S. A. Fluent English. Seeks suitable position. Please write to J. HOLZ, care of Mr. A. Sanfield, 6533 Kenwood Ave., Dallas 14, Tex.

WANTED

Established firm desires to represent nursery carrying line of shade trees and evergreens, including rhododendron, for sales mostly to garden centers. Pennsylvania, New Jersey, Connecticut and New York or part thereof. Address replies to Box 487, care of American Nurseryman.

WANTED TO BUY

Royer shredder (used), capable of handling load from tractor bucket. Minimum capacity of 30-50 cubic yards per hour. Wheel-mounted, gasoline-powered. Give full particulars. Reply Box 483, care of American Nurseryman.

FOR LEASE

Garden center—ideal location in shopping center next to supermarket. Doing an excellent business. One of the best locations in Bergen county. (Business property—no restrictions). Interested in net income lease.

DIRK DE VRIES GARDEN CENTER
75 Godwin Ave. Midland Park, N. J.
Phone: Gilbert 4-2808

FOR SALE

Dobbins power sprayer. 1951 model 4265. 100-gal., skid-mounted, 3 GPM, 300 psi. Completely rebuilt. A-1 condition. \$390.00 cash F.O.B. Delivery any time.

JOSEPH HOLLER
FLORIST & NURSERY
207 E. Ann St. Paris, Ill.

FOR SALE

Nursery and landscape business on one of main roads near Chicago. 3 acres, 300-ft. frontage. Good business. 1½ acres nursery stock. Fast-growing neighborhood. Ideal for garden center. 25x35-ft. building, office and storage. Quick possession. Write Box 477, care of American Nurseryman.

FOR SALE

Holland, 2-row, self-propelled mechanical nursery stock transplanter. Purchased new 1951, used 1 week, like new. Plants seedlings, bare-root liners, 2½-inch pot plants. Original cost \$680.00. Will sell \$340.00 F.O.B.

MIAMI NURSERY CO.
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FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1080 Magnolia Ave. Elizabeth, N. J.

maps and notes on climatic background and regional flora. Following the pages of plant pictures is a section devoted to descriptions of the plants, with their origin and care noted, occupying 89 pages.

The production of this book represents a lifetime of experience and many years of study and gathering of material by the author. The cyclopedia covers a great number of exotic plants useful for indoor growing, and the contents are quite authoritative. Four color plates are added to the great number of black-and-white illustrations previously mentioned. Even at the price of \$17.50, this book is attractive to anyone at all interested in this type of plant material.

MINIATURE TREES

The widening interest in recent years in the Japanese art of producing dwarf trees, or bonsai as they are sometimes called, should bring a strong welcome for the new book on "The Japanese Art of Miniature Trees and Landscapes," by Yuji Yoshimura and Giovanna M. Halford, published by the Charles E. Tuttle Co., publisher with offices in Japan and in this country. The book is an unusually handsome one, in its binding, appearance of text and number of illustrations. Eight pages carry 25 pictures in full color; many pages of half-tone plates show various styles of miniature plants and landscapes and their production, and figures from line drawings illustrate methods described in the text. In view of all this, the price is unusually low, \$7.50; perhaps that is because the book was produced in Japan.

The Japanese author is a member of a family of garden designers, who

WANT ADS

Display: **\$4.50** per inch, each insertion.

Lines: **40c** line; Minimum order **\$4.00**.

FOR SALE—Wholesale nursery in east central Florida. Net, \$9500. Cash and carry. Largest in area. 3 acres, 5 wells. Opportunity to develop. Write B9960.

Pottery manufacturing business on west coast. Nationally known. Established 1903. Full facilities. Gross \$90,000. \$35,000 down handles. Write B24686.

Greenhouse in central Indiana. Not in operation now. Good opportunity. No competition. Ask \$6300. Write B62475.

BUSINESS MART OF AMERICA, 5723 Melrose Ave., Los Angeles 38, Calif.

FOR SALE—If you have integrity, ambition, know-how and some capital, here is your chance to buy a 30-year-old Puget sound nursery. Good land, buildings and equipment and a loyal lot of customers. **KAYLOR NURSERIES**, R. 1, Arlington, Wash.

KELTHANE

helps prevent mite damage to TREES, FLOWERS, SHRUBS and ORNAMENTALS

Why put up with mite damage to your nursery or greenhouse plantings, when there's one sure way to prevent it? New Rohm & Haas **KELTHANE** miticide controls spruce mites, red spider mites, cyclamen mites and several others . . . even so-called "resistant" species.

One spraying of **KELTHANE** provides long-lasting residual action. No need to repeat spray for several weeks.

In recommended dosages, **KELTHANE EC** emulsifiable concentrate has a good margin of safety when applied to plants, buds and flowers. And there's no visible residue to hinder sales.

For extra-sensitive varieties, **KELTHANE W** wettable powder is suggested. Both **KELTHANE** formulations mix readily with water. Insecticides and fungicides may be included in the spray.

See your Rohm & Haas fieldman . . . or write direct for full information.

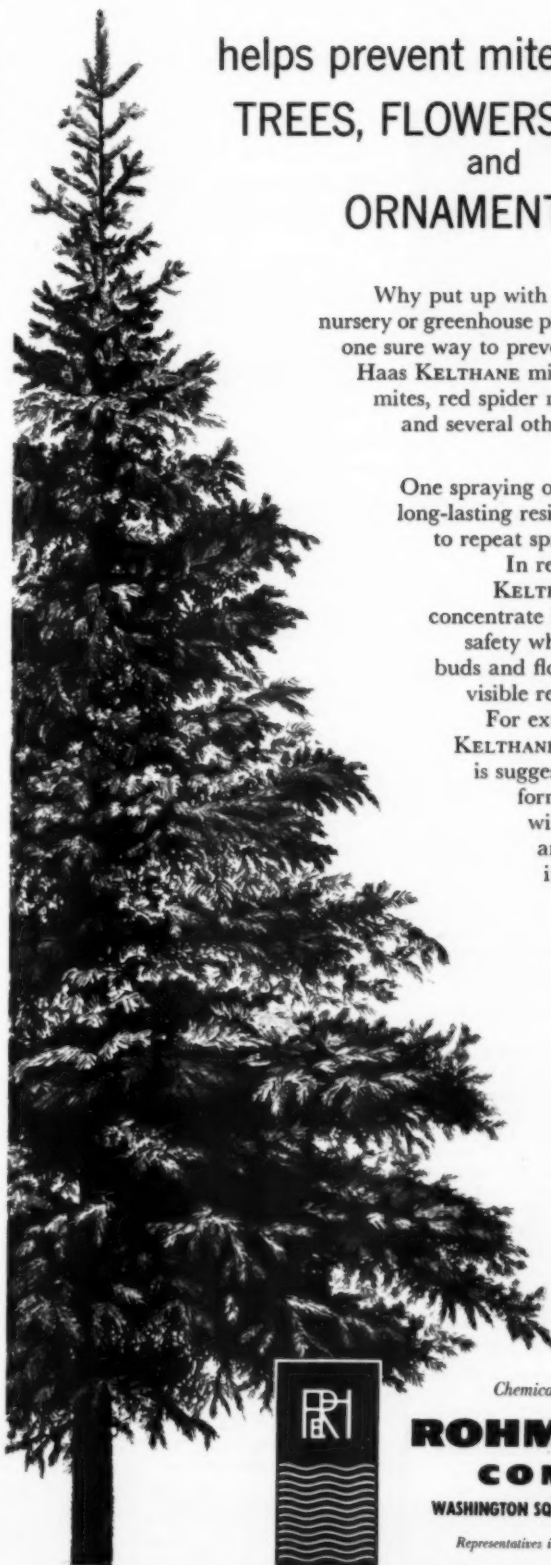
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This Nursery Model FITCHBURG CHIPPER Eliminates Brush Hauling



Makes Low Cost Mulch

The next time you haul or burn prunings, remember a Fitchburg Chipper will quickly chip your prunings to eliminate hauling... provide plants and shrubs with a protective moisture cover to guard against summer dry spells, or protect your evergreens from winter drying.

The nursery size Fitchburg Chipper is inexpensive. Yet it converts nursery prunings, waste wood, into a long-lasting, moisture-holding mulch that stays put, won't burn or blow away. It lasts year after year and gradually breaks down into humus.

Model C5 is widely used by orchardists and nurserymen. This model is operated by means of the tractor power take-off. A Fitchburg Chipper gives you "on the spot" convenience on most wheel-type tractors.

The patented spring-activated feed plate, a Fitchburg exclusive, completes the safe, single operator chipping equipment. Each limb is held tightly against a cutting head. With the spring-activated feed plate, you chip brush in various sizes up to its rated capacity with equal effectiveness. There is less shock to the cutting edges, the tough, chrome steel knives stay sharp longer. Chipping goes faster.

FREE CHIPPER FACTS

Write Fitchburg today for free Chipper Facts. Know how a Fitchburg Chipper can save you man-hours and give you low-cost mulch, besides. Tell us how many acres and the type of nursery stock you have, and we will send you the proper literature and prices on models best adapted for your work. The coupon is for your convenience.



**FITCHBURG ENGINEERING
CORPORATION**
Fitchburg, Mass.
Dept. AN-38

PLEASE SEND facts about Fitchburg Chippers suitable for nurserymen—also prices. We have _____ acres of nursery stock to prune.

We have a _____ Tractor.

Name of Nursery _____

Name of Individual _____

Address _____

Town or City _____ State _____

has held classes in the bonsai art for several years. Mrs. Halford, an English woman accompanying her husband on a tour of duty in Japan, is one of Yuji Yoshimura's pupils and having completed the most advanced course is able to set worth the subject of the book in clear exposition.

The 220 pages of the book, each 7 1/4 x 10 inches, include complete coverage of its subject. After a short introduction, the subject of propagation is discussed and then, in longer chapters, potting and repotting the plants and, next, training the plants. A further chapter is on rock and group plantings, and then comes one on the care of bonsai, while short closing chapters are devoted to pests and to judging and exhibiting bonsai.

Further, there are appendices in the back of the book, listing and picturing tools and equipment, soil analyses and basic data on 340 bonsai plants. A plant index by English and scientific names and a plant index by Chinese-Japanese characters are supplemented by a general index of six pages.

Whether desired as a book of instruction or as a portrayal of an interesting art, this handsome book will be prized by the possessors.

WINTER GARDEN

Those interested in the extension of the enjoyment and beauty of gardens will wish to read "Color in the Winter Garden," by Graham Stuart Thomas, although it is written by an Englishman and is keyed to the climate in which he has experience. But a large part of our own country has a climate close enough to the mild conditions in England to make many of his suggestions of direct value. Mr. Thomas is garden adviser to the British National Trust, a nurseryman and author of the recent book, "The Old Shrub Roses."

His book, issued in this country by Charles T. Branford Co. at \$6.50, is an attractive volume of 220 pages, with many line drawings by the author and eight illustrations in full color. His chapters take up, in order, trees, shrubs, heathers, climbing plants, trees and shrubs with colored bark and rhododendrons. Separate chapters discuss foliage and berries. Then, in order, are discussed herbaceous and bulbous plants, with special chapters on crocuses, iris, snowdrops and snowflakes. Final chapters are on cultivation, planting the winter border and planting tables. As this summary shows, the author not only makes an interesting presenta-

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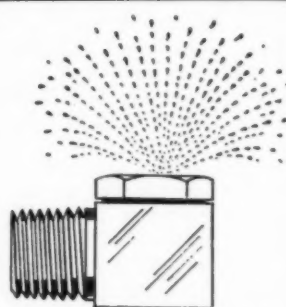


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tion of his subject, but offers also much in the way of practical advice.

TREE HANDBOOK

The 25th in the series of handbooks published by the Brooklyn Botanic Garden is entitled "The Hundred Finest Trees and Shrubs for Temperate Climates." Actually, over 100 plants are described in this 80-page handbook, which is available from the Brooklyn Botanic Garden, Brooklyn 25, N. Y., at \$1 per copy.

Serving on the selections committee were men recognized as plant authorities, representing arboreta, state colleges, botanical gardens, professional landscape architects and the nursery industry. The plants selected are considered the finest available today, old and new. Planters throughout the northern two thirds of the country will find this descriptive list valuable.

Almost every one of the plants described is pictured, and the data given for each cover the plant's outstanding features, habit and use, hardness, culture, species and varieties.

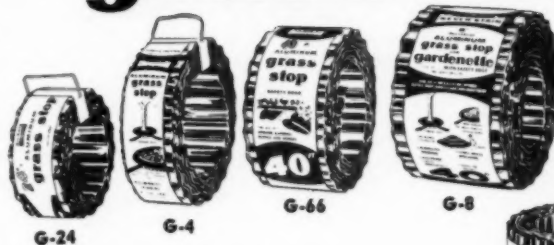
LILY YEARBOOK

The educational work of the North American Lily Society is continued in the 10th in the series of Lily Yearbooks, just distributed to members. It is a handsome book of over 150 pages, clothbound and containing numerous illustrations. Among more than two dozen articles are covered propagation, commercial production, lilies from various countries of Asia, lilies grown in various sections of the United States and reports on experiments with the genus. The list is too long to be given here, but its variety and interest keep up with those of preceding volumes. The capable editor is George L. Slate. Published by the society, the book is obtainable on a remittance of \$3 to its treasurer, Ernest F. Stokes, 21 Oakton street, Lexington 73, Mass.

ROSE-BUYING GUIDE

Over 400 roses that have been introduced in this country in recent years are listed in the 1958 Guide for Buying Roses, available at no charge from the American Rose Society, Columbus 14, O. Ratings on over-all garden performance, relative height, color and fragrance are compiled from reports submitted from hundreds of amateurs throughout the country who grow them in their own gardens.

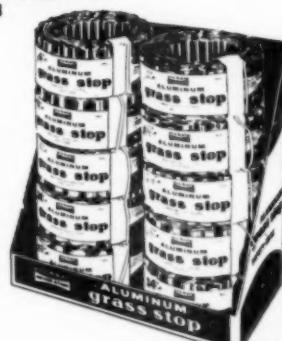
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F-8G	Lustre-Green	96"	24"	6	21

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Plant Propagators' Meeting

Propagation of Annuals and Perennials

Reported by F. C. Galle

A previous issue of *The American Nurseryman* carried a report of the business session of the Plant Propagators' Society meeting at Cleveland, O. Also given at that time were the data from one of the opening discussions, on "Spruce Propagation."

In the subsequent sessions of the meeting various new techniques of propagation received attention and there were comments on the propagation of numerous plants requiring special attention. Following is a report of talks delivered at the meeting on the propagation of annuals and perennials.

Annuals

On the first afternoon, the session on propagation of herbaceous perennials and annuals was opened by Phil Jones, research and plant-breeding department, George J. Ball, Inc., West Chicago, Ill. In his address, "A Roundup of Newer Practices in Bedding Plant Production," Mr. Jones stated that sales opportunities in herbaceous plants are greater than they have been in the past and that the public is turning to the purchase of plants rather than of seeds. He said that the nurseryman should select varieties to meet the interests of his own trade and have quality plants available at the time they are desired.

Mr. Jones then discussed the germination of seeds in developing salable annuals. He pointed out that peat moss, sphagnum, Styrofoam and vermiculite are all uniform media with no food value; nutrients must be added. The Ball Co. uses a puddled, steamed soil in flats, covered with a layer of the seed medium. The seeds are planted directly in the container and left to become established. Mr. Jones advised seedling in rows rather than broadcast and a uniform application of moisture. The best temperature for germination, he said, is about 60 degrees, with a high moisture level maintained during germination through the use of automatic misting systems. Seedlings are moved to a 50-degree temperature and are watered less frequently, but thoroughly. Fermate is used to control diseases.

He also noted current trends toward the use of sand and peat mix-

tures, for the growing of seedlings; Jiffy pots, of peat composition; containers and trays, and liquid fertilizers.

Seven "don'ts" outlined by Mr. Jones were: 1. Don't use poor soil. 2. Don't allow seedlings to become stunted or hardened. 3. Don't starve seeds. 4. Don't allow seedlings to become diseased. 5. Don't allow insects to infest seedlings. 6. Don't allow the seedlings to lack water. 7. Don't grow the plants too cold.

In closing, Mr. Jones showed a series of slides depicting some of the procedures mentioned in his talk as well as many new varieties of herbaceous plants that will be available to the trade in the future. He showed slides of the new All-America petu-

nia, Maytime, and of the new All-America marigold, Petite. He mentioned that improved varieties are much more uniform and more satisfactory than old varieties, with a lower mortality rate due to their increased vigor.

Perennials

Next, "Present-Day Practice in Perennial Propagation and Culture," was discussed by Ken Fisher, Kingwood Nurseries, Mentor, O. Mr. Fisher mentioned that there are 3,000 to 5,000 species and varieties of herbaceous perennials listed in horticultural literature. The three main methods of propagating perennials are by seeds, by divisions and by cuttings. Limited grafting is be-

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ing done on some plants, such as baby's-breath. Under controlled conditions, many named varieties come true from seeds. However, Mr. Fisher mentioned that Oriental poppy varieties do not come true from seeds, but will from root cuttings. He also noted a trend toward the use of peat pots. Propagation of perennials by seeds is usually done in the fall, in outdoor beds, from which seedlings are transplanted in the spring. Small quantities of plants can be hand planted with a trowel, while a planter can be used for large quantities of plants.

Division of perennials is a simple operation, he said, and the size of the division varies with different plants, some divisions being no more than a single eye or root. Some plants, such as some phlox varieties, make up too large from divisions and are normally propagated by cuttings. Those plants that can be propagated by root cuttings, such as the Oriental poppy and rudbeckia varieties, are usually handled in late summer or early fall. Stem cuttings of perennials are rooted outdoors under mist during the summer.

Reported Techniques

Mr. Fisher also reported on propagation methods used by other nurserymen with whom he corre-



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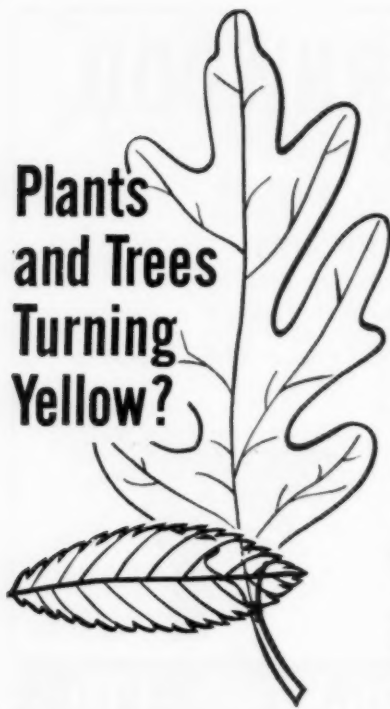
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sponded in preparing his talk and mentioned that, while some are still grafting gypsophila, others have begun to produce the plant through use of cuttings. The new practice of freezing perennials for storage seems highly satisfactory, he said.

Potted Perennials

George Rose, of the Henry Field Seed & Nursery Co., Shenandoah, Ia., presented a paper on "New Concepts in Pot Culture of Perennials." Mr. Rose discussed the propagation of chrysanthemum plants for the mail-order business, stating that potted plants ship better than bare-root plants. He pointed out that potting is not a new operation, for some companies have been making clay pots for over 100 years. Clay pots, however, are heavy, break easily, are difficult to sterilize, take up space when not in use and are too heavy for satisfactory shipping.

Some work has been done in the use of sphagnum as a medium in clay pots to reduce shipping weight, but rotting of the plants has occurred more frequently. Mr. Rose then told of his search for a cheap, all-purpose pot, during which he tried over 25 different types and finally chose a plastic pot that has extra slits on the sides. The entire plastic pot is enclosed in a plastic bag in preparation for shipping, the leaves of the plant being left uncovered. Mr. Rose also showed samples of his paper-backed adhesive tape, which has the name of the variety printed on it at 2-inch intervals. This tape is placed on each pot prior to shipping. He gave a demonstration of the boxes used in shipping his chrysanthemum plants, from sizes for single plants up to units that hold six potted plants. In closing, he mentioned that control of soil is necessary in the growing of good plants and told of using an electric soil bridge to determine fertilizer needs.

Summaries of the remaining talks will appear in later issues.

MIDWEST TREE MEETING

[Continued from page 15]

damage to bird life can be properly evaluated consists of taking an adequate census of the bird population both before and after the spray application.

(Q.) Is there any difference in susceptibility to DDT among different species of birds? (A.) Yes. The wrens, warblers and other small birds are the most susceptible, while such birds as the English sparrow, starling and pigeon are resistant. (Q.) Is acreage application data on



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DDT applicable to spraying as it is commonly done to control Dutch elm disease? (A.) Application of heavy dosages of DDT in small areas may be damaging, but bird migration from adjacent unsprayed areas into the sprayed section will occur. It appears doubtful that DDT spraying to control Dutch elm disease will seriously affect the bird population.

Systemic Controls

In discussing the topic "Systemics in Pest Control," David E. Donley, United States forest service, central states experiment station, Columbus, O., defined a systemic material used in insect control as one "that is taken in by the plant—through leaves, stems or roots—and is translocated, perhaps by sap movement, to untreated portions of the plant and renders these untreated portions toxic to insects that feed on these parts."

Dr. Donley said there were three general groups of systemic materials—selenium compounds, the organic fluorine compounds and the organic phosphorus compounds. He explained that because the selenium and fluorine compounds leave persistent residues that are toxic to warm-blooded animals, research attention is being directed toward the organic phosphorus group.

Dr. Donley pointed out that little is known as yet about systemics, especially with regard to their use against insects that infest shade trees and ornamental shrubs. He expressed optimism, however, in the future of these materials and said that, compared to conventional insecticides, systemics are advantageous in that they can be applied with low cost equipment; thorough plant coverage is not essential; the danger to pets, birds and other wildlife is less than with some spray-type materials; adverse weather is not a serious factor in application, and large quantities of diluents and carriers are unnecessary.

He said their disadvantages include phytotoxicity; variation in residual effect, and the care needed in handling and applying, because of their toxicity to man and animals. In concluding his presentation, Dr. Donley showed a series of slides illustrating experiments being conducted with systemic materials as a means of controlling defoliators, leaf miners, gall-makers, dogwood borer, locust borer, mites and various other pests.

Soil Structure

"Soil Structure and Treatment for Plant Growth" was discussed by

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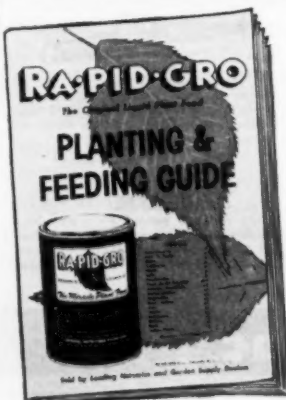
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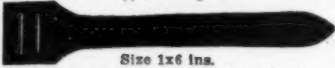
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Chris C. Doll, superintendent of Bluffs Experimental Fruit Farm, Council Bluffs, Ia. Commenting that too often soil fertility is considered only in terms of the nutrients present, he said plants are not able to utilize these elements unless the soil structure is favorable. A soil of good structure, he explained, has a grainy, crumblike texture with a pore space equal to about 50 per cent of its volume.

In such soils, conditions favor water absorption and drainage and resist erosion; plants develop deep, wide-spreading root systems and have good top growth. For restoring and maintaining soil in good condition, he suggested such measures as supplying plant residues, manure, lime and fertilizers; avoidance of plowing when the soil is excessively wet or dry; providing drainage where needed; use of compressed air, mechanical implements or dynamite to shatter hardpans where present, and, possibly, the use of chemical soil conditioners.

An excellent paper on "Dutch Elm Disease and Elm Phloem Necrosis" was presented by Richard J. Campana, associate plant pathologist, Illinois Natural History Survey. In comparing the two diseases, he stated that Dutch elm disease is known to be present in 24 states within the area bounded by Maine, Virginia, Colorado and Wisconsin. Elm phloem necrosis has been found in 15 states in the area bounded by West Virginia, Nebraska, Oklahoma and Georgia. Both diseases have been found in West Virginia, Ohio, Indiana, Illinois, Missouri, Kentucky, Tennessee, Iowa and Kansas.

Ultimate Dutch Elm Spread

It appears likely that Dutch elm disease may spread to all areas in the United States and Canada where elm trees grow. In recent years phloem necrosis seems to have reached the geographic limits of its possible spread, although this is not a certainty. Dutch elm disease is caused by a fungus now known as *Ceratocystis ulmi* (formerly *Ceratostomella ulmi*). Elm phloem necrosis is caused by a virus known as *Morsus ulmi*.

Dutch elm disease is carried from diseased wood to healthy elms by the introduced European elm bark beetle, *Scolytus multistriatus*, and the native American elm bark beetle, *Hylurgopinus rufipes*. Beetles emerging from infected wood carry the sticky spores of the fungus on their bodies, and when they feed on the tender bark of healthy elms, the

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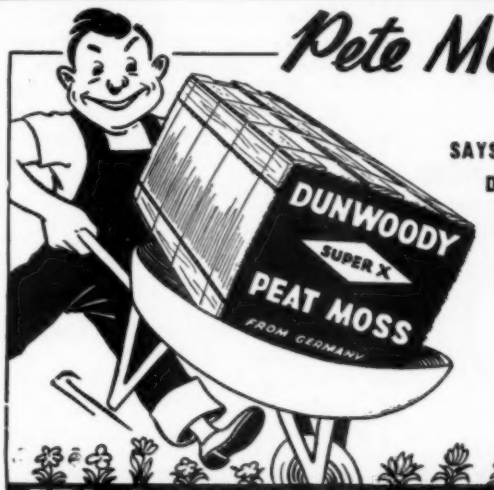


spores are rubbed off into the feeding wounds.

Elm phloem necrosis is carried from infected to healthy elms by the leaf hopper, *Scaphoideus luteolus*. The leaf hopper has piercing-sucking mouth parts and feeds only on sap drawn from the inner tissues of leaves. In infected trees, the phloem necrosis virus is contained in the sap; transmission of the disease occurs when the virus-carrying leaf hopper moves to a healthy elm and feeds on its leaves. Both Dutch elm disease and elm phloem necrosis may be transmitted from diseased to healthy trees through natural root grafts.

Dutch elm disease affects all species of elm (*ulmus*), and some species of zelkova and planera. Chinese elm, *Ulmus parvifolia*, and Siberian elm, *Ulmus pumila*, are resistant to the disease, but not immune. The Buisman and the Schwartz elms, developed seedling selections of the Dutch elm, *Ulmus carpinifolia*, at one time considered to be immune to the disease, now are conceded to be slightly susceptible. Elm phloem necrosis affects only the American elm, *Ulmus americana*, and the winged elm, *Ulmus alata*.

Early symptoms of Dutch elm disease are wilting and yellowing to



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browning of leaves, usually localized in one or more individual branches and spreading to one area of foliage after another throughout the tree. Brown streaking is conspicuous in the outer sapwood of branches bearing wilting or discolored leaves.

Elm phloem necrosis also causes yellowing of leaves, usually well-distributed throughout the tree at the same time. In trees with typical

phloem necrosis symptoms, the inner surface of the bark of buttress roots is lemon yellow to butterscotch in color and has a distinct odor of the oil of wintergreen.

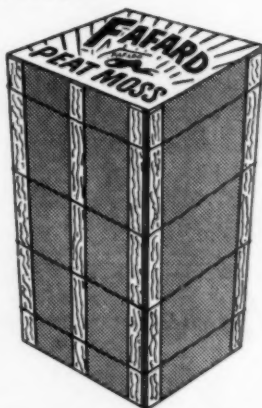
Final diagnosis of Dutch elm disease can be made only through laboratory techniques, since several diseases produce symptoms very similar to those resulting from Dutch elm disease infection. The elm phloem

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necrosis virus cannot be isolated in normal laboratory procedure; hence, final diagnosis is made in the field by means of symptom expression in the leaves and roots.

Control Measures

Presently advocated control measures for Dutch elm disease consist of an annual dormant application of DDT spray to the bark of all twigs, branches and trunk, and sanitation, which includes destruction of all weakened or dead elms or parts of elms, diseased trees and elm wood-piles.

Recommended measures to control elm phloem necrosis consist of applying DDT spray to the leaves after they have emerged and expanded completely—usually in June in Illinois—and sanitation, which in this case means removal of infected elms as soon as positive identification of the disease has been made. When elms affected by phloem necrosis die, they are no longer a source of infection, since the virus dies with them.

In commenting on the two diseases as they occur in the Urbana-Champaign, Ill., area, Dr. Campana said control measures for both diseases were applied to the elms on the University campus for a number of years; then in 1955 the controls for phloem necrosis were discontinued. Since that time, he said, the number of cases of phloem necrosis have increased, which indicates that when both diseases occur in the same area, controls for both must be maintained.

Dr. Campana said losses due to Dutch elm disease on the university campus where controls were practiced, amounted to 15 per cent of the elm population over a 7-year period, as compared with 45 per cent in surrounding communities that used no control measures.

Thursday morning was devoted to a symposium on tree pests in the midwest. Pests discussed included "Oak Wilt," by T. W. Bretz, University of Missouri, Columbia; "Cedar-Apple Rust," by Forrest C. Strong, Michigan State University, East Lansing; "Fire Blight on Ornamentals," by Robert N. Goodman, University of Missouri; "Verticillium Wilt," by J. C. Carter, Illinois Natural History Survey, and "Scale Insects on Ornamentals," by E. F. Herrbach, Standard Oil Co., Chicago, Ill.

Oak Wilt

Prior to 1950, Dr. Bretz said, oak wilt was known to occur in only six states, while now it is known to be



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present in 18 states in the area bounded by Kansas and Nebraska eastward to Pennsylvania, Virginia and North Carolina, and from Minnesota, Wisconsin and Michigan southward to Tennessee and Arkansas. This distribution of the disease, which is caused by a fungus now called *Ceratocystis fagacearum*, has not increased since 1951, said Dr. Bretz, although slow local spread within areas of infection has occurred each year. At least 51 species of oak and some species of chestnuts are susceptible to the disease.

The disease develops even in such unrelated plant species as sassafras, apple, hickory, dogwood, ash, sourwood and others. Trees in the red oak group are most susceptible and usually die within one season. As far as is known, none of these trees has ever recovered from the disease. White oaks, he said, are better able to withstand infection and "a fairly substantial number appear to overcome infection and recover."

Local spread is known to occur through natural root grafts, but the method by which the disease is carried aboveground is still undetermined, although certain species of insects are suspected of being carriers. There appears to be little danger that the fungus can be transmitted to healthy oaks on tools used in pruning or felling diseased trees, he commented.

Control measures still consist of isolating the diseased tree, by trenching to sever the roots or by using chemicals to establish barriers of dead oak vegetation, and removing and destroying diseased trees to eliminate them as a source of infection.

None of the therapeutic treatments tested to date has been completely effective, said Dr. Bretz, and research on the disease should be continued until completely satisfactory control methods are found. He warned that, although the present spread of the disease is slow, perhaps due to inefficient vectors, it should be recognized that more efficient carriers of the fungus might appear and increase the disease to catastrophic proportions.

Cedar-Apple Rust

Professor Strong described the cedar-apple rust disease in its several stages and outlined control measures. One control method consists of picking and burning the galls during the winter or early spring months. He pointed out that this method could be used only when small trees are involved and cautioned that its

[Continued on page 158]

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NEW BULLETINS**DUTCH ELM BROCHURE**

The Midwestern chapter of the National Shade Tree Conference is offering a brochure entitled, "Guide for Community-Wide Control of Dutch Elm Disease." This work was prepared as a report of the Dutch elm disease specifications committee for the annual meeting of the Midwestern chapter at Milwaukee, Wis. in February, 1957. Copies are now offered at \$1 each, or 75 cents each for 10 or more copies, to help pay printing and mailing costs.

The purpose of the publication is to provide the most complete and accurate information available on the control of Dutch elm disease for use by municipalities. However, the guide contains information of value for control of the disease at any level. It includes details for surveying an elm population, scouting both for diseased trees and for beetle-breeding hazards, destruction of beetle-breeding hazards and spraying to prevent infection of healthy trees and to maintain uninfected elms in a healthy condition to prevent invasion by elm bark beetles. The guide also includes a series of specifications and model forms for contract bidding on large control projects.

SUGAR MAPLE STUDY

Howard B. Kriebel, assistant professor, Ohio agricultural experiment station, Wooster, O., details his two years' study of heritable geographic differences in *Acer saccharum* in the station's research bulletin 791, entitled Patterns of Genetic Variation in Sugar Maple. Seeds and young trees collected over the eastern half of North America, from Florida to Canada, were studied in greenhouse, experimental nursery and field plantings at Wooster. Recorded in many charts given through the 56-page booklet are the differences noted in survival, growth rate, period of growth, endurance of climatic extremes, tree form and other characteristics among trees from the various sources.

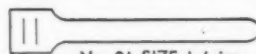
Mr. Kriebel gives as a practical objective of the study the eventual production of *Acer saccharum* seedlings of known origin, having known favorable combinations of growth and adaptability characteristics. Such selections, according to the

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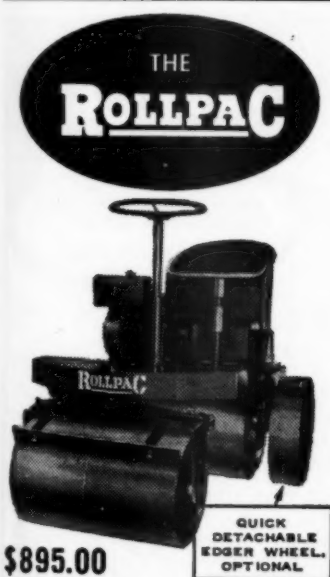
author, can pave the way for controlled hybridization to produce trees with new and improved genetic combinations.

PRUNING FOR GARDENERS

Recommended for the homeowner is Circular 779, "Pruning Trees, Shrubs, Roses," by H. R. Kemmerer, just issued by the college of agriculture of the University of Illinois, Urbana. This 16-page circular presents the fundamentals of pruning in numerous sketches and brief explanations in the text.

FLORIDA'S TOXIC PLANTS

Twenty-three poisonous plants cultivated in gardens or occurring as common weeds in Florida are described in circular S-100 of the University of Florida agricultural experiment station, Gainesville. Entitled Poisonous Plants Around the Home and written by Erdman West, the booklet describes the symptoms of poisoning that each of the plants will produce if touched or eaten. The name and nature of the toxic content of the poisonous plants are given whenever they are known. Line drawings of each plant illustrate the text.



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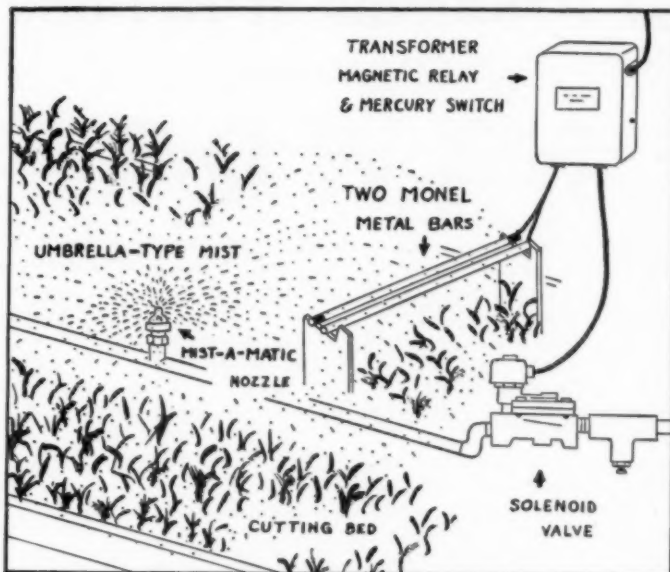
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Christmas Tree Growers Air Problems at Indiana

By Irving J. Matthews

The sixth annual convention of the Indiana Christmas Tree Growers' Association held in the Student Union building at Purdue University January 24 and 25 brought out a surging membership, saw effective program innovations and ended with a challenge by Joe Vandermark, of the American farm bureau, for growers to accept the recently published United States grades for Christmas trees and become adept in applying them to their trees, for wholesale or retail sales.

Harry Nussmeier, Evansville; Daniel DenUyl, Purdue University, Lafayette, and George Godsey, Bloomington, were elected to 3-year terms on the board of directors.

The difficulty in getting active audience participation in a large crowd sitting at some distance from the speakers was solved by dividing the audience into four equal sections. From 2 to 4 p. m., four panel discussions were held concurrently in four adjacent classrooms on the second floor. Each half hour, the sections rotated to another room, and the panelists told their story four times to as many different sections.

Panel Discussions

Two panelists were in each room, one a Christmas tree grower, the other a technical expert. Topics and speakers were as follows:

1. Species selection and insect control discussions were led by John Holwager, Scottsburg, and Donald L. Schuder, of the entomology department at Purdue University.

2. Shearing and cultural practices were discussed by A. N. Liming, Versailles, and Donald Goodwin, forestry consultant, Indianapolis.

3. A wood and brush control panel told the results of recent tests with new chemicals, as used by Fred Warren, Purdue University; Tom Crane, Lebanon, and Daniel DenUyl.

4. A spirited marketing session had H. Cope, Richmond, and Robert Kern, Rochester, arguing their respective methods.

Tree Pests

The Zimmerman moth is the worst enemy of Scotch pine Christmas trees, said Donald Schuder, showing slides of the extensive damage done

in a Scotch pine nursery in Laporte county the past season. First, there is a shepherd's crook in the leader; next, the leader tumbles; then the larvae burrow around in the top whorls and, before pupating, may bore down a foot or so in the second year's growth. A 2 per cent DDT spray is recommended in mid-August to destroy the emerging moths.

Mr. Schuder believes the Zimmerman moth will prove unusually destructive to Scotch pines, but will attack other pines as well.

John Holwager emphasized planting with nature instead of against it. He recommended Norway and white spruce for shaded locations, and for wet areas, his choice was spruce, white pine and balsam fir. Jack pines were suggested for eroded, sandy or high ground. Red pines were not recommended for poorly drained, badly eroded land in southern Indiana. Scotch pines will not tolerate

shade, but white pines do well in shaded locations on the north side of woods, said Mr. Liming.

Shearing

At the panel on shearing and cultural practices each person was given mimeographed definitions of shearing, pruning and other terms.

Only red, white and Scotch pines were considered, and it was recommended that they be sheared in the order named. While growers agreed that red pine responds to shearing more reluctantly than any of the others, it was pointed out that shearing in a Christmas tree nursery should commence three or four years after planting and after new shoots are 12 to 15 inches long.

Shearing is done to correct defects and develop compactness in the tree by causing it to set more buds at the whorls, said Mr. Liming. While no exact time can be given, more side buds will be formed if the new growth is sheared where the vegetative new growth is hardening into wood.

While shearing in Indiana is generally done June 1 to July 1, Donald Goodwin, who shears 400,000 Christmas trees annually, finds it preferable to delay the work until June 15 and continue it until August 1. He ob-



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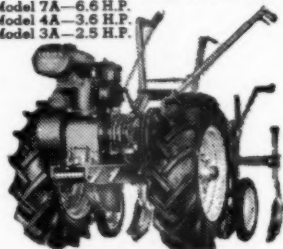
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serves that this late shearing reduces
insect damage by removing some of
the new growth.

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Tom Crane, Lebanon, reported on
pine seedlings planted through black
polyethylene, five feet wide. The
cover was laid over the trees and
then pierced, so the trees could be
pulled through. It was so hot under
this cover that not a weed could live;
all moisture was saved, and the trees
grew faster, gaining a year in growth.

The three Crane brothers have ar-
ranged to plant their 1958 seedlings
using 2-foot widths of black poly-
ethylene, and they estimate that they
can obtain the advantages mentioned
on a large number of seedlings for
\$100 per acre.

Of the pre-emergence chemicals
applied in test plots in 1957, said Mr.
DenUyl, simazin gave the best con-
trol. Fifty per cent simazin was ap-
plied in April at the rate of four
pounds per acre, and it controlled
bindweed, wild sweet potato, grass
and sedge during the entire growing
season. Right now, added Mr. Den-
Uyl, the fireplanes are bare; they
were treated June 25.

Simazin is a wettable powder, vol-
unteered Fred Warren, and when 50
gallons of spray are used per acre,

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no finer than a 50-mesh screen and
a wide nozzle should be used to pre-
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For controlling hardwoods in
Christmas tree nurseries, it was re-
commended that brush killers (2,4-D
and 2,4,5-T) to be mixed with oil for
the dormant spray and with water
for the foliage application. Gear-type
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Comments on marketing Christ-

mas trees produced a horde of prac-
tical ideas, after a selling season in
which many Indiana cities were glut-
ted with cull trees.

Tree Tagging

No buyers tag his trees, said Rob-
ert Kern, Rochester. He tags what
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100,000 and up	6.00 per M	100,000 and up	6.25 per M
2,500 per case — 45# per case		2,000 per case — 50# per case	
3" Round		3" Square	
1,000 to 9,000	13.25 per M	1,000 to 9,000	16.50 per M
10,000 to 49,000	12.25 per M	10,000 to 49,000	15.25 per M
50,000 and up	11.00 per M	50,000 and up	14.00 per M
1,000 per case — 45# per case		1,000 per case — 45# per case	
4" Standard		4" Azalea	
500 to 2,000	27.50 per M	500 to 2,000	25.00 per M
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just what he is bargaining for. Few reported tagging by buyers as satisfactory.

Ralph Wilcox reported on his experience giving retail buyers a saw and letting each cut his own tree; Several customers cut off two or three trees, took the best one and hid the others. A buyer cut a white pine in the yard that was worth \$25. Still another buyer took his station wagon out into the plantation and got stuck, so the nurserymen had to pull him out with a tractor.

One fellow cut some Austrian pines and put them in his truck. A tree fell out and broke its leader and the buyer was sure he should not pay for that one.

A forehanded grower suggested tagging the salable trees just ahead of the shearing crew. The tagged trees are not sheared; so they appear more informal.

Grading

Saturday's session started with Carl Carpenter, Nashville, reading the recently published United States Christmas tree grades. Each member then tried his hand at grading eight trees brought in for this test. There was so much difference of opinion it was apparent that only a neutral referee could settle the matter.

J. S. Vandermark, of Purdue University, using this exercise as a text, pointed out the problem faced by a grower who has a shipment of trees on the market that are refused by the buyer on some pretext when there is no disinterested third party to settle the matter. Mr. Vandermark then launched into a discussion of scientific pricing of Christmas trees. With a series of charts, he showed that, with minor variations, nursery-grown trees of any kind should sell for not less than \$2 each. In scientific pricing, he continued, the producer never lets his culls reach the market; they always depress the price on the better trees.

Trees should be continuously up-graded, and the culls used only for decorative branches or wood. All growers should learn to judge grades, he declared, to know a premium, U. S. No. 1 and U. S. No. 2 Christmas tree at sight. When a large number of trees is shipped to a buyer who has never seen them, trouble can be avoided by shipping them with a certificate of inspection attached.

Mr. Vandermark explained that No. 1 trees should bear the average cost of production, plus a predetermined profit. Premium trees should sell over this base price, at a premium depending upon how de-

luxury should the price

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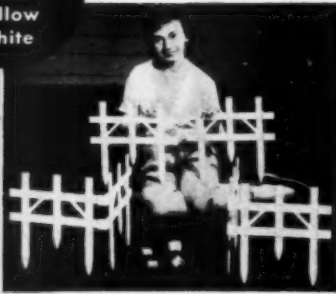
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luxury they are, while the No. 2 trees should sell for about 75 per cent of the price of the No. 1 grade.

It is possible to have tree shipments inspected by an inspector of the United States Department of Agriculture, said Mr. Vandermark. One official inspection will give a standard to judge by, and later inspections should be on trees that have been graded by the seller. There is a tolerance of 10 per cent, of which 5 per cent cannot be lower than the next grade.

Sampling and inspection of a "lot" costs about \$9, plus mileage expense, or if there is a large number, inspection may be by the day at \$14 per day and mileage. In case several growers club together, the inspection may be by the week, at \$100, with no charge for mileage.

Gregg Ransburg, legislative committee chairman, reported that the fight on the state's selling Christmas trees is at the decision stage before the state conservation commission.

PENNSYLVANIA MEETING

[Continued from page 7]

try to get rid of host plants. Border areas might be treated with Amino-triazole or dalapon.

An understanding of how a chem-

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Needle-point nursery nails with largest heads in the business. \$18.00 per keg; 10 kegs or more, \$17.00 each.

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ical works is necessary if treatments with it are to be effective. Some of the chemicals mentioned by Dr. Alban follow: Stoddarts Solvent, with 15 to 18 per cent aromatic content, is a contact killer. It can be used before growth starts, but must be employed with care, especially on evergreens. It would be well to check use experimentally. Crag Sesone is a general material that is effective only on germinating seedlings. An application of three to four pounds

might be effective for four to six weeks, depending on the season. The surface should be loosened up and application made after a rain, if possible.

Karmex is becoming important; it works much like Crag Sesone, killing germinating seedlings, but is not effective on established plants.

Other Useful Chemicals

Randox (CDAA) is excellent as a pre-emergence material on annual

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grass; it can be used on tender nursery plants, but is effective only on grasses. Chloro IPC has been effective in Oregon on annual broad-leaved weeds, but is not so effective in Ohio and Pennsylvania. It controls purslane. Simazin is new and promising. It works much like Crag Sesone, but does a better job on annual broad-leaved weeds and grasses. It is used at the rate of one pound per acre.

Amino-triazole works well on Canada thistle and poison ivy. It can be used effectively in spot treatments. Dalapon does the best job on quack grass, used at the rate of 10 pounds to 80 to 100 gallons of water. Treatment should not be made until quack grass is growing vigorously, and then 95 to 98 per cent control should be secured. It has been used around many woody plants without injury, but sometimes injury does occur. Plants should be checked carefully. It is best to control before planting. Sodium TCA is good on annual grasses if applied before emergence. Dalapon should be used if grass is three or four inches high.

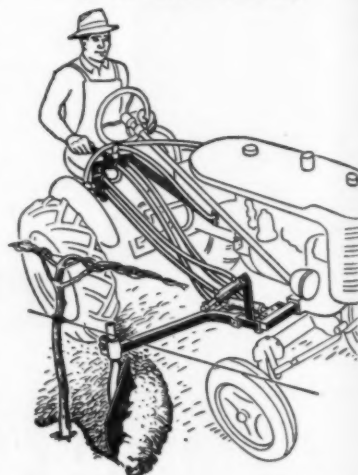
Although individual chemicals may be used effectively and safely, mixing two or more chemicals complicates matters. A mixture should be considered a new chemical and should be used carefully, to check the tolerance of nursery plants and the effectiveness of the material.

Care Urged

Dr. Alban concluded his talk by stressing the importance of eliminating weeds before planting and controlling the weeds in fence rows and adjacent areas. Before using weed-killing chemicals, one should consider the risks of applying the chemicals to nursery plants. It is easy to destroy many thousands of dollars' worth of plant material with one application of a chemical. In applying the chemicals, keep the material off the nursery plants; direct it on the soil and weeds. Quantities of water should be used, with little or no pressure. Sprinkling is better than a fine spray. Material can also be applied in a granular form with a spreader.

At the noon luncheon, Valleau Curtis, Callicoon, N. Y., treasurer of the American Association of Nurserymen, presented industrial landscaping awards to the Landis Tool Co., Waynesboro; West Penn Power Co., Greensburg; American Caustic Tiling Co., Lansdale, and the Philadelphia Inquirer, Philadelphia. Landscape and nurserymen awards for the foregoing companies were also presented: A. Gude & Sons Co., Washington (Landis Tool Co.); Mr.

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and Mrs. Fred Ashbaugh, landscape architects (West Penn Power Co.); George Patton, landscape architect (American Caustic Tiling Co.); De Kalb Nurseries, Norristown (American Caustic Tiling Co.), and William H. Doyle Co., now Doyle & McDonnell, Inc., Berwyn (Philadelphia Inquirer).

Highlights of 1957

In his address, President Homer A. Thornton pointed out some of the highlights of the past year. These included the continuing of the school landscape awards; underwriting the Penn State nurserymen's conference; publishing the news-letter, with Louis E. Wissenbach as editor; maintaining friendly relations with the department of horticulture at Penn State; maintaining membership in the State Council of Farm Organizations; participating in the Horticultural Council of Pennsylvania and spearheading the publishing of a booklet on "Opportunities in Horticulture" by the council, and compiling an active membership list for distribution by the secretary.

The association also checked on the contracting and the way specifications were followed in highway plantings. It was successful in preventing the passage of a bill allowing the sale of trees in thinning programs when trees had been purchased from state nurseries. A study was made of state nurseries, to check production and sale of stock to other state users.

President Thornton charged the new officers to work for the promotion and extension of highway planting, to work toward getting the state out of the nursery business, to promote careers in horticulture and to take steps toward the hiring of an executive secretary.

Valleau Curtis extended greetings as regional director of the A. A. N. He quoted from a talk by Frank Lovejoy at an eastern meeting, declaring the business is not in a recession as other trades seem to be, because (1) of a shortage of certain sizes and species of plant material and (2) the public has become more aware of what good landscaping is. The publicity program of A. A. N., under the direction of Howard Quadland, has helped the public to become aware of the monetary value yielded by landscaping. Nurserymen must be alert, however, and keep a tight rein on management and inventories and keep indebtedness to a minimum. He also explained the proposed change in the A. A. N. bylaws.

The activities of the Washington

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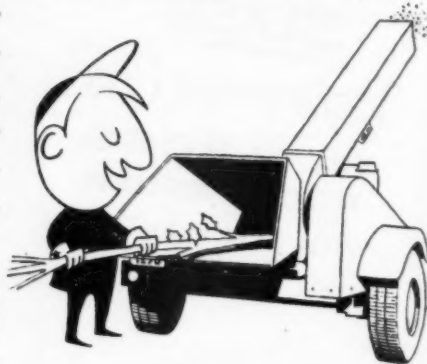
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office were explained by Curtis Porterfield. Howard Quadland spoke on the public relations activity of the A. A. N. He declared the sales of nursery stock had increased 44 per cent faster than sales in any other business during the past year, with an actual increase of 6 per cent. The purpose of the public relations work is to help sell more nursery stock. The program is one of education. The public must be educated to start with the land in home improvement. The home grounds should be made as attractive as a vacation land, since people are home for 11 months of the year. He said someday no new home, factory or building will be built without consideration for planting. He urged nurseries to develop their own personalities and think up new ideas for selling.

At the meeting of the Pennsylvania chapter of the A. A. N., Stanley Leighton, Raymond Hively, Fred Mummert and Homer A. Thornton were chosen as delegates to the 1958 convention, with Louis Wissenbach; Walter Pitzonka, Jr.; Sidney Hutton, Jr., and Wilbur Nisley as alternates.

The highlight of the banquet was the presentation of the J. Hansell French award of nurseryman of the year for 1957 to Louis E. Wissenbach, Pittsburgh.

Second Day's Program

The second day opened with a business session, with various committees reporting. The necrology committee reported that four members had died during the year. They were Charles Dudley; Robert S. Horn, Jr.; Joseph Snyder, and H. T. Smeltzer. A moment of silent tribute was paid these former members. Stanley Leighton reported for the public relations committee. He stressed the importance of the school landscape awards and urged greater support. Other activities of the committee have been cooperating with the Philadelphia Electric Co. in growing the type of trees desired. He also reported the metal truck signs were almost ready and would be available for all members who want them. The association will have a garden in the Philadelphia flower show.

John F. Styer, reporting for the state and federal nursery committee and the state sales tax committee, said all members had received letters regarding the sales tax. The committee conferred with the department of forests and waters regarding the production and sales of state nursery grown seedlings. It is hoped restrictions on the sale of these plants can be made.

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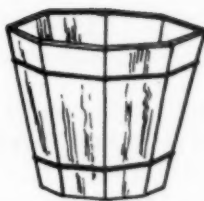
Albert F. W. Vick, Jr., reported that the rate for the workmen's compensation and insurance would continue at \$1.05 per \$100. He urged all precautions for safety. John M. Eisler, of the highway and public works committee, said the committee was created because much of the work on highway plantings had been poorly done, with little inspection. On some plantings the losses were 75 to 100 per cent. It was felt this type of work was bad publicity for nurserymen and that specifications should be more rigid.

Louis E. Wissenbach informed the association that six issues of the news-letter were published during the year at a cost of \$499.01. He stressed the need for more material and said it should be received by the 12th of the month of publication.

Credits

"Credits and Collections" was discussed by R. F. Shevlin and R. D. Boggs, Dun & Bradstreet, Inc. Mr. Boggs, speaking on credit, said it represented faith and trust. Credit is needed to move the economy, but must be used with care. It is easier to use cash if sales are high, but usually not likely; so credit is needed to stimulate sales. However, the

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prices should be adjusted to carry the credit. The ultimate consumer is different than a wholesaler, and the only way the ultimate consumer can be made to pay is influence on his character. Before credit is given to a business concern, a check should be made to determine whether it is sound or unsound. For the consumer, a procedure suggested was to get a down payment with the order and the balance to cover the whole cost of the material at the time of the

installation, giving credit only on the profit part.

Mr. Shevlin spoke on collections and felt that a guarantee is better than a discount. He said a bill should be sent at the end of 30 days; if unpaid, the account should then be considered delinquent. He cited a procedure of follow-ups: With a sale made in January and not paid in February, a bill should be sent. If the bill is not paid then, one should call on the buyer in March and give



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him to March 15. A bill not paid then should be given to a collection agency.

One should not procrastinate on placing accounts as delinquent. When placing accounts for collection, use a reliable agency, but do not expect immediate collection if a considerable time has elapsed before the bill was placed with the agency. Figures were given showing how the value of an unpaid bill decreases in time. If the current value is \$1, in two months its value will be 90 cents; in six months, 67 cents; in one year, 45 cents; in two years, 23 cents; in three years, 15 cents, and in five years, 1 cent.

Saleyards

"The Importance of a Saleyards" was the topic discussed by J. H. Burton, J. H. Burton & Sons, Hyattsville, Md. He said a saleyard permits more condensed operations. Using proper arrangement, one can put as much on one-half acre of saleyard as in 10 acres of rows. Stock can be cared for easier and more quickly, and sales can be made faster.

Plants can be made ready for sales and displayed better by digging when it best suits the operator. Employees can be more gainfully used the year around. Roses, for example, can be potted and put in a bed in back of the saleyard, then brought to the front when they begin to bud. Beds are neater and have more appeal than nursery rows; thereby sales resistance is more easily broken down.

Allied products can more easily be carried and sold, increasing sales and serving as an inducement for visits. Nationally advertised products should be carried, but it is also desirable to have one's own brand whenever possible. This adds distinctiveness to the saleyard.

The season can be extended with a saleyard. Azaleas can be bought from about 100 miles south and will bloom about two weeks earlier. Plants can also be bought from the north to come in later. By potting and canning material, one can have a selling time almost all the year. In the winter such things as bird seed and houses should be carried, to keep buyers coming in.

Aid to Quantity Sales

Saleyards help increase quantity sales and allow for economy in buying. Advertising is a must. Newspapers, direct mail, radio and TV can be used. Mr. Burton likes newspapers best. He prints prices and has a leader each week. It is neces-

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Sturdily constructed, the MENNEPOT withstands hard handling.

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500 of a size takes 1000 rate in sizes 0-0 1/2-1-2-3-Pan. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-Pan. Size 0, 250 only. Size 0 1/2, 200 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in sizes 0 1/2 and 1; 50 per carton in sizes 2, 3, Pan and 4, and 20 per carton in size 5. NO BROKEN CARTONS.

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sary to have a budget and determine the percentage available for advertising. Opening of the spring and fall seasons should be especially advertised.

Another advantage of the salesyard is that most of the sales there are cash. This provides a steadier income for year-around operation. Many people may stop every week or two to buy a few plants, though they probably would not if they had to take a complete planting at one time.

The final speaker was Prof. Thomas D. Greenley, Jr., Long Island Agricultural and Technical Institute, Farmingdale, N. Y. His subject was "Advertising." He said advertising is the key to the economic system. It is not a learned scientific profession. It is not an easy road to riches nor a guaranteed way to expand a business. It may have no effect and can harm, if wrongly done. New industry depends on advertising to get its product on the market. At the present time there is

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some evidence that public confidence is being lost because of extravagant and false advertising.

Use Original Thinking

Big business or big-time advertising is not necessarily right for the individual. So many advertisements are similar, with catch phrases used again and again for many products. Small business often tries to ape big business, and usually the results are not effective. Original thinking is

needed. A business should develop the opportunities in its own area. Effective advertising consists of offering good goods, giving honest representation, avoiding high-hatting and pressure and showing patience and courtesy in dealing with people.

Each firm should develop its own distinctive trade-mark. A dignified permanent sign at the nursery is important. Advertising in local newspapers is effective if small advertisements are kept running for the en-

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ture year. Local weekly newspapers are best, with a local daily next best. Direct-mail material is usually thrown away.

In printing, a small business may best start with mimeographed lists of plants and prices. As the firm grows, printed lists are made. Eventually catalogs may be desirable. Be sure to have coverage before printing catalogs.

MASSACHUSETTS COURSE

[Continued from page 9]

also be considered in many public plantings. Mr. Merrill concluded by saying that frequently one of the greatest problems in public landscaping is finding plant material of sufficient size.

Landscape Pointers

Landscape design, with particular reference to large and small modern homes, was discussed by Prof. Raymond Otto, of the landscape department of the University of Massachusetts, Amherst. Reduced to simplest terms, said the speaker, design is order or organization. It might be defined as orderly arrangement of component parts.

There are many approaches to design, but one of the most logical is to analyze the factors which affect the individual problem. These aspects include the physical factors of the site—orientation of the lot, type of house, topography, existing trees and views to be featured. Sociological factors relate to the owner and his way of living. Will the family want a show place or one with dignity and privacy? Finally, the functional uses of the property must be considered. Will there be flower or vegetable gardening? What outdoor living demands will be required with the activities and interests of the family?

Neither the traditional classic nor the natural design is suited to the modern home and home lot, Professor Otto indicated. Today it is especially important to organize the lot space on the basis of the factors previously given, with consideration also for the need to relate the house and environment.

Good contemporary design is difficult to describe and achieve, the speaker declared. Characteristics of it include space relationships; free arrangement of geometric forms; proper use of materials, old and new; emphasis on horizontal lines, and restrained use of plant material in favor of architectural material.

An approach to establishing the space areas can be made by extend-

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ing the lines of the house and relating certain portions of the lot to the proper areas of the house. Variations in house designs keep this method from becoming too mechanical.

Approach Area

The approach area between the house and the street creates a satisfactory setting for the house from the street. Contemporary architecture often turns its back on the public way. Normally, walk and drive should be straight and unemphasized. The emphasis should be on the front door arrival area.

The work, or service, area needs easy access from the street, especially the drive. It might contain an area for drying clothes, a work yard or children's play space.

The remainder of the yard is the living or private area and is related to the living area in the house. Here are developed terraces, sun traps, lawns, garden areas and eating and entertaining areas. Every resource of imagination and ingenuity must be called on to make this area delightful.

To obtain climate control for the homeowner, one must give thought to the matter of orientation. Outdoor living areas are recommended to the south of the house; the west is the



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hot side. Trees are helpful to cut off sun when and where wanted and to shade paved areas that would otherwise reflect the sun's heat far into the evening. The design can also introduce barriers to cut off cold winter winds and at the same time funnel cooling fair-weather breezes of summer into the areas where they are desired.

Sun traps can be created with enclosures for early and late season use. Proper grading may help to drain off cold air to create a low cool spot with a barrier and a pool. These devices are all common elements of design that would be used anyway, but become more effective for climate control when correctly organized.

In conclusion, Professor Otto urged consideration for reducing the need of maintenance and recommended further that nurserymen charge for landscape designs supplied to clients in order to give the best possible service in this field.

Plant Selection

After a buffet lunch, the first afternoon session of the Massachusetts short course opened with a series of talks on "Plant Material for Landscaping." First to speak was Edmund Mezitt, Weston Nurseries, Inc., Hopkinton, Mass., his subject being "Evergreens and Broadleaves."

Mr. Mezitt said that this year's subject of landscaping is to his mind the most important phase of our busi-



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ness. The proper use of plants for functional purposes and beauty can only mean a better appreciation of our business by the ever-increasing number of persons building homes, factories and highways; in fact, it can result in an appreciation of our effort and products by everyone. Horticulture, he said, is receiving its first major recognition on a national scale with the issue of the Liberty Hyde Bailey memorial postage stamp on the anniversary of the 100th birthday of the late Liberty Hyde Bailey. A limited number of these stamps will be available at every post office, but, if users order a year's supply in advance (before March 15), any amount will be available.

Landscape design, continued Mr. Mezitt, is almost wholly dependent upon the successful use of plants. Plants must thrive in order to complete the picture that is created in the design. Mr. Mezitt continued by discussing the types and varieties of plants adaptable to the northeast section of the country, giving comments on their cultural requirements.

Evergreen Types

He began with the narrow-leaved evergreens, group one having leaves needlelike in bundles, an example being pinus. Group two had leaves in pairs or whorls, small, scalelike and overlapping, examples being chamaecyparis, juniperus and thuja. Group three had leaves alternate, at one place, examples being picea, pseudotsuga, taxus and tsuga.

Next Mr. Mezitt discussed the broad-leaved evergreens, group one being climbing vines; group two, ground covers; group three, low shrubs, one to two feet high; group four, small shrubs, three to five feet high; group five, medium shrubs, six to eight feet high, and group six, large shrubs and small trees, 10 to 20 feet high.

Trees, Shrubs and Vines

"Trees, Shrubs and Vines in the Landscape Design" was the title of the talk by Paul N. Procopio, assistant professor of horticulture, department of landscape architecture, University of Massachusetts. Professor Procopio said that the design of garden areas which are used by people, the nurseryman's clients, should reflect their needs, their desires, even their personalities. Plant materials are, obviously, an important part of any landscape design. It is only with extreme difficulty that planting design can be divorced from the total design. In creating any total unified concept one must consider space,



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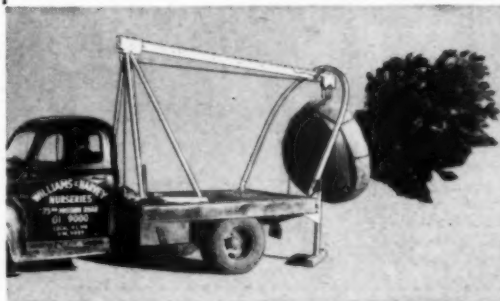
The location of individual plants and of plant beds depends upon the total concept. These units will create the forms and masses which enclose the spaces planned in the design. Further, those plants, along with architectural materials, such as paving, walls, fences and screens, provide color and texture. It becomes immediately obvious that plants planted for their own sake can easily result in a hodgepodge that may have spotty interest but not much continuity or unity and will probably result in poorly conceived space.

A method of creating a planting plan is to consider the spaces that have been created. These spaces are bounded by various material: Plants, walls and fences, on the sides; the sky — either clear or broken by tree foliage or roof structure — for a ceiling, and either organic ground cover or paving for a floor.

As the design evolves, the designer must determine what masses will form the enclosing sides of those spaces. Next, the designer must work out the texture relationships he desires. Then color and season of bloom must be thought out.

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are drawn up for each group of plants, it is merely a question of placing the proper plant names on each mass. This will result in the details of the design speaking the same language as the total design.

Planting Types

Professor Procopio stated that he had broken types of plantings into three groups. The first is partition plantings, such as hedges, which function similarly to the walls of a room. The second group is termed specimen plants, which include shrubs, small trees and large shade trees. The third group is foundation plantings, specifically those plants used against the house in an attempt to integrate the house with its environment.

Regarding maintenance, Professor Procopio said people are willing to spend \$30 as against \$15 per window to avoid maintenance expense; aluminum frames are used instead of wood for storm windows, to avoid painting. Is it a proper selling job if one fails to sell a dwarf yew instead of a standard yew to avoid as much maintenance cost?, asked Professor Procopio.

The speaker listed a number of plants, some of which are common, but many of which he thought were not used enough. He stated that he would not be afraid to use large shade trees on small properties. The large shade tree is part of the heritage of New England. It is not necessarily out of scale. Proper placing can, in many instances, eliminate the dwarfing effect the tree might have on a small home.

Professor Procopio concluded his talk by naming a group of books that would give the nurseryman aid in small property planting design.

Ground Cover Plants

An interesting discussion on ground cover plants was presented by Seth L. Kelsey, Harlan P. Kelsey, Inc., East Boxford, Mass. For this discussion, said Mr. Kelsey, he was limiting himself to plants that could be used to provide a more or less solid cover for the ground and could be maintained at heights not exceeding two feet.

The uses of ground covers in landscaping are as follows, he stated: To plant where grass cannot be used successfully or maintained easily; that is, shady areas and steep slopes; to permit wider spacing of the larger landscape plants; to preserve moisture, keep soil friable and keep roots of larger plants cooler; to plant with spring bulbs; to add interest and variety to the landscape; to prevent

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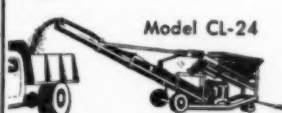
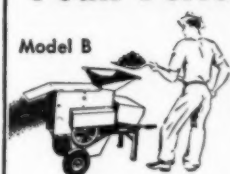
erosion on slopes and steep banks; to plant in sterile and rock areas; to reduce maintenance of large areas, especially in functional planting of highways, parks and other public areas; to provide weed control in the garden; to provide its own beautiful foliage, flower, fruit, autumn color or combination of these.

Mr. Kelsey listed a selection of the best ground covers for New England, breaking them down into the following categories: Evergreens, broad-leaved evergreens, deciduous shrubs, vines, herbaceous perennials and ferns.

Completing the afternoon program was a talk by Harold D. Stevenson, Harold Stevenson Landscape Service, Rockland, Mass. The title of his talk was "Use of Plants in the Landscape Design." Plants create the setting for the house, he said. They can bring out the finer details, hide the poorer aspects. They meet demands for particular purposes and must be considered for hardiness and adaptability. Visioning plants in relation to their location helps in creating a design that will have individuality and interest, because it will lead to selecting the most appropriate plants.

Basically plants are selected for the effect they will produce — lend

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solidarity, soften harsh lines, broaden or accentuate and give variety of texture or color at certain seasons.

It is essential to think of rate of growth in selecting plants, especially in limited areas. Plants which look

fine at the time of planting, in a few years can take over and destroy the original plan or design. Next is the matter of orientation, or exposure. The plant must serve its purpose and also stay healthy in its location. Ma-



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honia is not the plant for exposed locations, nor should rhododendrons be planted on the west side of houses where the sun will burn the leaves. Wet locations call for clethra, vaccinium and amelanchier, rather than ordinary shrubs. In a seaside planting, where high winds and salt spray will burn the needles of taxus, brown up red cedars and wither ordinary shrubs, Pfitzer juniper, Mugho pine, black pine, claeagnus, ilex, roses, Scotch broom and cotoneaster may be planted. Industrial and institutional plantings require the use of bold masses, good-size trees and groups of flowering trees to maintain scale.

Combinations

Mr. Stevenson cited the following plant combinations as having been used successfully:

A low, sprawling evergreen-like boxwood and a stunted taxus or Tom Thumb arborvitae, blue iris and a pink hybrid clematis growing gracefully against a corner of a white building.

A large, loose-branched upright taxus, with ferns, Sunset hybrid lilies and funkia against a dark brown fence, and a group of yellow azaleas at a corner.

With a dark-stained 1-story house having large trees in front, Sargent junipers planted on each side of the steps, with beds of vinca across the front, an upright andromeda at one side and mahonia and Taxus repandens at the other end to complete the planting.

For a corner planting at the edge of a property line, Malus thieifera against a background of Taxus cuspidata, with Carolina rhododendrons planted underneath, Taxus repandens in front and vinca for a ground cover.

Japanese red maple for contrast in front of a white house.

A fair-size Maxwell spruce, with primrose at its base, at one side of a terrace step and a white dogwood, pink Azalea gandavensis and low cotoneaster on the other to give different forms and textures and make an inviting entrance.

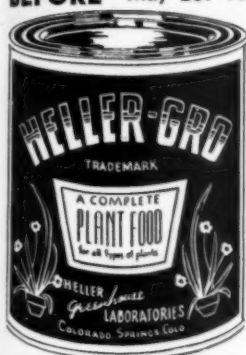
A social hour preceded the banquet for M. N. A. members and guests Thursday evening. The guest speaker was Dr. Richard Howard, director of the Arnold Arboretum, Jamaica Plain, Mass. During World War II, Dr. Howard was engaged in determining for American forces in the south Pacific what was and was not safe to eat in case it became necessary for them to survive without supplies in the jungle. He gave a highly entertaining talk, illustrated

YOU can do this with HELLER-GRO!



BEFORE—May 25. American Elm apparently dying, smothered by concrete driveway, was foliar fed with HELLER-GRO.

AFTER—June 18. After HELLER-GRO was applied this same tree recovered to continue sturdy, natural growth.



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Concentrated, completely soluble, paste-form HELLER-GRO produces healthy root growth and luxuriant foliage, builds vitality that comes only with good plant nutrition. It's made

with USP organic and inorganic materials, acts immediately and gives long growth response. HELLER-GRO solution will not burn. Use HELLER-GRO on trees, lawns, shrubs or flowers.

Sold in 3¼-oz. tubes, 1-lb. cans, 3-lb. cans, 50-lb. pails.

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HELLER GREENHOUSE LABORATORIES

Dept. 51, 218 E. Pikes Peak Ave., Colorado Springs, Colo.

with slides, on "Jungle Housekeeping."

The theme of the second day's program was "Selling Landscape Work." Leading the list of speakers was Lucius Howard, manager of Littlefield-Wyman's Garden Center, Abington, Mass., whose subject was "Selling Landscape in the Garden Center or Nursery Sales Ground."

The nursery industry is in need of merchandising techniques that will show the customer the final effect of a planting about his home, began Mr. Howard, so that he can more readily appreciate the improvement it will make. When a man decides to buy a new automobile, he can visualize how it will look in his driveway, because he has seen not only pictures but also the finished product.

The market potential in garden centers and nursery sales grounds is unlimited. Homeowners are anxious to landscape their home grounds. However, it is difficult for them to design a complete planting. Most of them will walk into a nursery with the thought of buying just one or two plants. It is up to the nurseryman to see to it that these persons have the true picture of a landscape developed for them. The do-it-yourself trend in America should not be allowed to overshadow the ability of an experi-

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CHELSEA, MASS.

enced nurseryman to show the homeowner how and what to plant and how to care for it.

It is most important, however, to talk in the customer's language. If a nurseryman wishes to persuade a customer to include in his planting a *Taxus baccata procumbens*, he should tell him that it is a prostrate English yew. Man is naturally afraid



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of the unknown, concluded Mr. Howard, and he will shy away from a sales talk that includes terms he has difficulty translating into English.

Industrial Landscape Sales

Heard with interest was the second speaker, Peter Casico, Peter

How to Make Your Garden Center HEADQUARTERS for SPRAYING and DUSTING



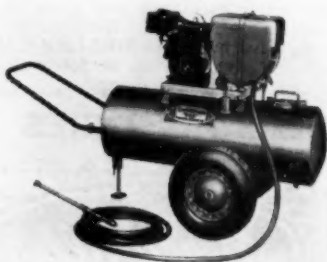
HERE'S THE HAND DUSTER THAT APPEALS TO HOME GARDENERS

Gardeners and rose growers who know the importance of effective dusting will want this "Little Champ" rotary duster. Only 8" high, weighs only 2½ lbs., makes dusting easy from teaspoonful of powder up to 2 lbs. Exclusive features you can sell.



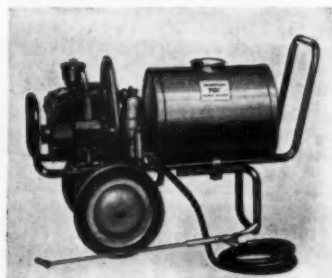
BE READY TO SHOW CUSTOMERS THIS NO. 1 KNAPSACK SPRAYER

This Champion No. 1 all-purpose sprayer meets every test of the gardener or lawn enthusiast who wants the best. All-brass tank and working parts, uniform pressure pumped as needed, 4½ gal. capacity, no clogging. Many thousands in use.



HEAVY-DUTY UNITS FOR ESTATES, DAIRIES, RESORTS, NURSERIES

Here's the 1958 model of the Champion "600" heavy-duty sprayer with more power, increased pressure, greater capacity and longer life. New 2 hp engine delivers 3 gals. per min. at 400 lbs. pressure; simplified mechanical agitation; 30, 50 or 100-gal. reservoir tank on wheels or skids.



STEP UP SALES WITH THIS NEW MEDIUM-SIZE POWER SPRAYER

This new handy, mobile power sprayer is your answer when heavy-duty sprayers are too big, hand sprayers too small. Compact, easy to move, 10-gal. capacity, 1 hp gasoline engine, pumps up to 1½ gals. per min. Pumping unit can be dismounted for stationary use.

Now is the time to stock the Champion profit-makers.
See your distributor or write for literature and prices.

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Manufacturer of Portable Sprayers and Dusters

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PROPAGATION OF PLANTS, by Kains and McQuesten. Nursery and greenhouse reference. 637 pages, \$6.00. American Nurseryman, Chicago 4, Ill.

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P. O. Box 167 Rochester, N. Y.

Cascio Nursery, West Hartford, Conn., who spoke on "Selling Industrial and Institutional Landscaping." In sales of this type of landscaping, the most important thing to remember is to maintain constant contact, he began. One may have the best plan for landscaping a public building at the lowest price, but unless he maintains constant contact with the potential buyer, he will probably see his competitor doing the job.

The sign of a good salesman is the ability to keep a prospective buyer interested and to supply him with all information necessary to assist him in making up his mind. It is not enough that the latter be accomplished in detail only once; it is of utmost importance to keep one's product and service in constant view of the buyer.

The method to be employed in selling landscaping is much the same as in selling any other product or service. One must have means of keeping informed on work contemplated by federal, state and private business enterprises. When a project is known, the nurseryman should then determine who will release the bids—the landscape architect, the general contractor or the owner.

In all three cases it is important that the nurseryman make his availability known. He may belong to the same club or have some other contact in common with the prospective buyer. Whatever it is, he should take advantage of it. If this is not feasible he should make himself known and not allow the buyer to forget him until the contract is awarded.

In approaching the architect, the contractor or the owner, the salesman should bear in mind certain basic interests of each. The architect is primarily interested in an outstanding job's being done. The salesman must convince him that his nursery is capable of doing it. The contractor, of course, is primarily interested in the lowest possible price. The owner is interested in a permanent, presentable job. He should be shown what adequate landscaping can do for the good will of his business in the community, concluded Mr. Cascio.

Selling Homeowner

On the morning of the second day, in the absence of Frank White, a panel discussion was held on the subject of "Selling to the Homeowner," with Arthur Lieby, Peter Cascio and Sterling Myrich serving as panel members.

Although many methods of making home landscape sales were mentioned, it was emphasized that meet-

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May 13, 1957

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Very truly yours,

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Send sample and price list on No-Rot.

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Company _____

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City _____ Zone _____ State _____

ing the customer face to face was
most important. Visiting the prospective
buyer's home was recommended.

Direct-mail advertising was discussed.
It was agreed that this method of selling
ideas to the public requires constant supervision
to be effective.

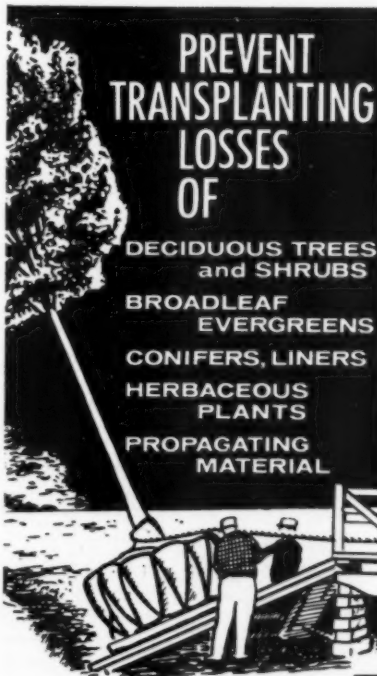
It was also observed that a price range
determination is important to the seller before
he can specify what materials will be used in a
planting. It was also deemed important to take
a small job with the prospect of selling additional
planting as the homeowner has more funds
available and to make the initial planting with an
eye toward the end product — a complete
planting, even if it takes two to three years to
accomplish.

Landscape Profit

The final session of the short course was a
panel discussion bearing the theme, "Profit in
Landscape Work." Panel members were Homer K.
Dodge, Framingham Landscape Co., Framingham,
Mass., and Richard Halloran, Edward Halloran, Inc.,
Newton, Mass. Mr. Dodge, starting the discussion,
stated that several theories on profit goals have
been advanced. Twenty per cent of investment
has been seriously advocated for the landscape
business. Invest-

PREVENT TRANSPLANTING LOSSES OF

DECIDUOUS TREES
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BROADLEAF
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CONIFERS, LINERS
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WITH NEW, IMPROVED

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material . . . from 40-ft. Pin Oaks to
small vegetable seedlings . . . have
been moved successfully even in hot-
test weather when coated with WILT-
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you. Write for contest details!

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GROUND COVER PLANTS

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Describes more than 200 kinds of woody plants and herbaceous perennials
which can be employed to cover the soil in sun and shade. Covers hardiness,
planting, general maintenance, winter protection, pruning, propagation and lists
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Mr. McArdle is the owner of McArdle's Seed Company — Greenwich, Conn.

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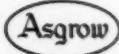
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SHRUBS AND VINES FOR AMERICAN GARDENS, by Donald Wyman.

Planting guide for florists and nurserymen. **\$8.00.**

American Nurseryman

Chicago 4, Ill.



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PERFECTION MARKERS ARE BETTER

for Park Trees, Display Gardens, Field use or Greenhouse Pots or Benches. Proven by thousands of users and every one a booster! You'll like them, too. They will stand for years at one marking, or may be changed any number of times for various markings. Send for catalog and prices of the complete **PERFECTION LINE.**
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ments, however, are variable; a small service business with little investment would hardly survive on such a profit, while a large production nursery would probably never achieve it.

The minimum standard profit should be a fair year's pay plus savings bank interest on the cash value of one's investment. If a business does not achieve this, it needs attention, said Mr. Dodge. Corporations must make this profit in order to pay dividends. If a business can make large profits and continue to grow in both stature and service, it should be honored.

Landscape men do not make adequate profits, he said, pointing out that unprejudiced observers such as bankers, investment counselors, business analysts and vocational guidance counselors agree on this point. The principal faults found with the industry are that annual net profits are too uncertain, because of the highly seasonal nature of the business; profits are too small to be a good risk for outside capital, and most firms can only pay a good wage to the owner, while all other employees receive a low wage.

Profit Theory Simple

The theory of making a profit is simple, he said; one need only charge more than all his costs. There are two basic methods of putting this into practice. The first consists of setting prices high enough to cover all costs and yield an additional profit. This is an excellent method if one can find enough customers to pay such prices. This can usually be achieved by promotion merchandising, etc., and makes high-quality merchandise and service possible. The public tends to forget price if it is satisfied; higher-priced firms usually last longer, pointed out Mr. Dodge. This is the best basic method for retail and service companies, he added.

The second basic method is to accept competitive prices as the rule and devise methods of keeping costs low enough to assure profit. This could be called the American or progressive approach. It seldom succeeds in the landscape field, resulting in cutting corners instead of cutting costs. One's business reputation is thus gradually lost, and Herculean efforts are required to overcome the drop in business — a few do it. Wholesale nurseries more often follow this method. The most successful businesses find a happy compromise between high enough prices and low enough costs, rather than complete adherence to either theory, stated Mr. Dodge.

His own firm, being retail and

service, enough broken continu are ma seven machinery (loom, mercha sion. T head, side se is to ma analyze it was see wh Mr. D ence h others' tivities more n Cont Hallor of ann after e erating charged is also job ren cost ha Man the ma sales. of inco tual co

IT'S ANDERSON'S MICHIGAN PEAT

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More Sold in Michigan Than Any Other Quality Peat



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BAGS**

service, emphasizes prices high enough to cover costs. Operations are broken down into seven basic parts, continued Mr. Dodge, and efforts are made to make each pay. The seven parts are plants, labor, machinery (trucking), soil improvement (loam, etc.), construction materials, merchandise and plans and supervision. Then, of course, there are overhead, or general expense, and outside services. The greatest problem is to make a profit on labor. The firm analyzes each landscape job whether it was done on contract or not, to see what happened. In conclusion, Mr. Dodge stated his firm's experience has been the same as most others' — the better it planned activities and the harder its effort, the more money it made.

Continuing the discussion, Mr. Halloran said profit is that portion of annual sales income remaining after every legitimate expense of operating for the period has been charged against that income. Profit is also the portion of the price of a job remaining after every legitimate cost has been assigned to that job.

Many people confuse profit with the markup on merchandise in yard sales. Others think that any excess of income over field payroll and actual cost of material and equipment

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**"Spray On"
Plant
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Just spray on leaves and let dry for high gloss. Guaranteed not to injure plants.

Packaged: 8-oz. and quart bottles, with or without sprayers, gallon bottles and 5-gallon pails. Indoor plant growers: Write for information and prices for volume use.

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in contract or job work is profit. These are serious fallacies. Every dollar of sales income must offset its proportionate share of labor, material and general overhead and, finally, yield that small percentage of profit.

The markup on production labor before profit is between 90 per cent and 115 per cent. This is wholly separate from charges and markups on materials and other services purchased for jobs. This means that, if

Performance and Profit!

Use and sell new
15 and 30 gal.
**PARAGON
Power Sprayers**

for a two-fold profit-boost in '58!
One-man operation... mechanical piston-pump over solution, trouble-free... new streamline-design tank... mechanical agitator, no settling... low-slung tank prevents upsetting... high velocity mist to 25 ft. stream... 1 1/2 HP, 4 cycle gasoline engine... truly low-cost! Write for complete line catalog.



The Campbell-Hausfeld Co.
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CAMPBELL-HAUSFELD

one pays a laborer \$2 an hour, he must get back \$4 for every hour the man is on the payroll, or money is lost.

In a competitive, free market, profit is the reward of efficiency in administration and operations. An efficient firm gaining an annual real profit is an asset to the general community.

A competitive profit in a high risk business, such as landscape contract-

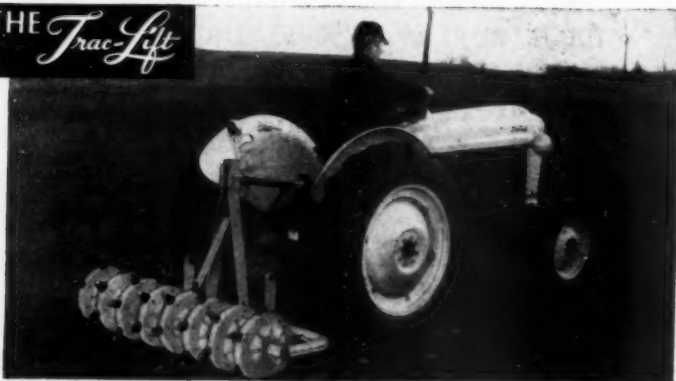
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THE *Trac-Lift*



A self-transporting, cultivating, renovating and aerating machine for Ford-Ferguson, International 300 and other hydraulic lift tractors.

Six feet in width, it is built of tubular steel and has eight aerating wheels and a choice of three coring, slicing and renovating knives.

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FLOWERING POT PLANTS, by Charles H. Potter. Methods of leading pot plant growers. Growing information on more than 30 varieties. 128 p., illus. \$2.00, postpaid. American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

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Ideal for Greenhouse Heating



**EASILY INSTALLED
IT WILL NOT RUST**

Descriptive literature and prices sent on request

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ing, should be set at 10 per cent of gross income, not at the prevailing plus or minus 1 per cent. Few operate in the range of 10 per cent profit, as nurserymen and landscape men traditionally sell for volume or prestige and far too many sell without any sensible knowledge of the costs of production. It is no wonder that landscape contractors have a poor credit reputation with their suppliers and that customers look down on them as poor businessmen, difficult to deal with.

Without real profits one cannot do good work or give responsible service, and without these there is no market. A firm that operates at unrealistic profits is not formidable competition, merely an organization suffering from mismanagement.

Anyone who is trying to produce an annual volume of much more than 10 times his average working capital should look out for trouble. Actual operating costs should be known and recovered in prices.

The real salesman and the real competitor is the businessman who sells for a consistent profit in today's market, whatever it may be — high, low or dull. He can always fulfill his customer commitments, pay his bills and give his market the best in management, methods and service.

MIDWEST TREE MEETING

[Continued from page 133]

effectiveness depends on the removal of every gall. A second method of control is that of applying Acti-dione, Bordeaux 180, Elgetol or similar materials to red cedars in the spring, after the spore horns have emerged from the gall surfaces but before they become enlarged and swollen.

Apple and hawthorn trees may be sprayed with ferbam or similar fungicides in the spring to prevent infection from spores discharged from the galls on cedar trees, Professor Strong said, or cedar trees may be sprayed during the summer to protect them against the spores released from the fruiting bodies of the fungus that develop on apple and hawthorn leaves. Since cedar-apple rust requires alternate hosts for completion of its life cycle, the disease may be controlled by avoiding the planting of red cedars close to apple or hawthorn trees.

Fire blight is a bacterial disease, Dr. Goodman said, which affects a considerable number of plants, including serviceberry, hawthorn, apple, crab apple, sweet cherry, plums, fire thorn, pear, apricot, prune, American mountain ash and others of the family rosaceae. Application

FERTO-POTS

**Millions Used
Plant Eats Pot**

Made with COW MANURE. Bone dry, keeps indefinitely. Bury FERTO-POTS in flats or benches; then plant seeds, cuttings, plants, bulbs, etc. Transplant plant (pot and all) weeks or months later (no shock or setback).

POT FEEDS PLANTS

(Be a two timer)

Grow two and three crops per year off the same ground by having FERTO-POTTED plants well-started and ready to set out in the field as soon as the first crop is finished.

Also Sell FERTO-POTTED plants to gardeners and growers.

Prices bulk packing F.O.B. Pittstown, N. J.

50,000 to 300,000

300,000—carload
or more

No. 2 —\$10.80 per 1000

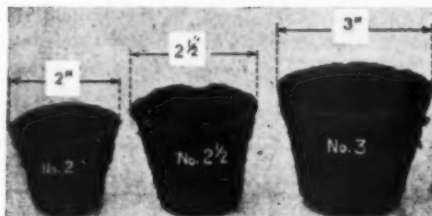
\$ 9.00 per 1000

No. 2½ — 12.00 per 1000

10.00 per 1000

No. 3 — 13.80 per 1000

11.50 per 1000



Unit Prices F.O.B. Pittstown, N. J.

No. 2	100 for	\$2.50	250 for	\$4.50
No. 2½	100 for	2.75	250 for	5.00
No. 3	100 for	3.35	250 for	5.75
Stock No.	DEPT. STORE UNITS	2—No. 3 Pots per unit.	Carton of 48—15c Units	Shipping Weight
201	Box of	Size No.	Shipping Carton	20 lbs.
251	1 doz.	2 -in.	25 doz. pots	25 lbs.
301	1 doz.	2½ -in.	25 doz. pots	35 lbs.
		3 -in.		
				List Price
				50c doz.
				60c doz.
				75c doz.

ALLEN COMPANY

PITTSOWN, 3, N. J.

of the antibiotic streptomycin in a 3 or 4-spray schedule is extremely effective, Dr. Goodman said, in reducing the amount of blossom blight infections, but is not effective against twig infections. For satisfactory control of fire blight, he recommended application of antibiotic sprays at blossom time, severe pruning of infected twigs and small branches and cutting out and disinfecting cankered areas on the trunk.

Verticillium wilt affects many species of trees, shrubs and other plants, Dr. Carter said, including such trees as American elm, black locust, Norway maple, western catalpa, American linden, redbud, tulip tree, magnolia and others. He explained that the verticillium wilt fungus is a soil-inhabiting organism which can infect trees through wounded roots and stems.

It grows and spreads in the tree through the water-conducting vessels of the sapwood, causing discoloration in the sapwood of elms quite similar to that resulting from Dutch elm disease. To aid in controlling the disease, Dr. Carter suggested pruning of dead and dying branches in infected trees, plus an application of fertilizer.

Using color slides to illustrate his discussion, E. F. Herrbach described

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Imported Holland
PEAT MOSS

Roots screened out
You get the best part—the Peat Flakes!

Genuine BOSKOOP
REEDMATS

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Address all correspondence to:
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the scale insects commonly found on trees and shrubs in the midwestern area and suggested control measures for each. The most troublesome scale insects in this area, Mr. Herrbach said, are elm scurfy scale, European elm scale, oyster-shell scale, San Jose scale, euonymus scale, juniper scale, lecanium scale, Putnam scale, Forbes scale, cottony maple scale and oak kermes.

Lime-sulphur and dormant spray oils have been used for years in scale

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Double Duty Plant Pot and All

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PLANT-2-GRO

PEAT POTS

Insure Good Growth Avoid Transplant Shock

"PRICED TO SAVE YOU MONEY"

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Toledo 6, Ohio

control, and more recently such materials as malathion and DDT have been used in foliar applications to control scale insects in the crawler stage. Recently, spray oils have been developed which are known as superior-type oils, and these provide means for much better control of scale insects than hitherto has been possible.

The superior oils, Mr. Herrbach said, are highly refined, are used at about one-half the concentration

JEFFY-POTS
The World's
First
Peat Pot



- Set in the field, pot and all.
- Roots grow right through pot wall.
- Faster rooting—Better established plants.
- No cleaning and storage of pots.

2 1/4-Inch

Quantity	Per 1000
3,000 to 18,000.....	(3,000, \$21.75) ..\$7.25
21,000 to 72,000.....	6.75
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Sold in cases of 3,000. Minimum order 3,000, 35 lbs. per case.

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of the regular spray oils and may be used as either a dormant or delayed dormant application. Mentioning systemic insecticides, he said use of these materials in experiments has given, in some cases, excellent control of certain scale insects. Malathion used at the rate of one quart of the 50 to 55 per cent emulsifiable material in 100 gallons of spray mix provides control of scale insects if applied during the crawler stage of these pests.

In the paper presented by Mrs. Maurice Zollar, Glenview, Ill., on the subject "A Homeowner's Viewpoint of Tree Care Practices," commercial arborists were given guideposts to follow in obtaining new clients and retaining them as satisfied, repeat customers.

When the homeowner who has not previously employed arboricultural help needs such service, Mrs. Zollar said, selection of the tree service firm to do the job is made through advice sought from neighbors, friends, nurserymen, florists or others whose business or profession bring them in contact with commercial arborists, and through advertisements or publicity material of arborists. An arborist's or tree expert's possession of a license is also a factor in selection in states where licenses are required, as they now are in Illinois.

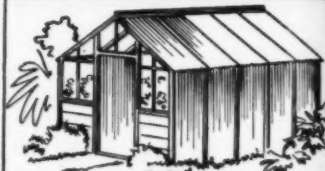
After the arborist has been chosen and contacted, said Mrs. Zollar, the homeowner expects him to call promptly; inspect the trees; make a diagnosis in simple terms; estimate the time, work and costs involved, and inform the homeowner of any needs he may not have realized. Once on the job, the arborist and his workmen are expected to be courteous, careful to prevent damage to the house or yard and to remove all debris from the premises when the work is completed.

The homeowner expects the arborist or his foreman to supervise the crew sufficiently to assure performance of the work as originally planned, to check the work on its completion and, if time is an element in solving the tree problem, to check it again within a few months or within a year, as indicated by the need.

Urges Arborist Publicity

Mrs. Zollar pointed out that few homeowners are well-informed concerning trees, the care they need and their actual value. She suggested that arborists, as a group, should place greater emphasis on public relations work and should strive to make the homeowners of the country more tree-conscious through magazine

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and newspaper articles, advertisements, lectures, film strips and other publicity media.

Through such publicity, prospective homeowners could learn of the value of trees in choosing a building site; contractors and their workmen could be made conscious of the care needed in building to protect trees; architects could be educated to consider the preservation of trees in their planning; arborists' licensing laws could be more easily enacted, enforced and publicized, and the homeowner could be taught to schedule his tree work so it could be performed at the proper season.

Career Expectations

Kenneth B. Kirk, a young arborist with the Shield Shade Tree Specialists, Clayton, Mo., then spoke on the subject "What I Expect in a Career in Arboriculture." Mr. Kirk told of events that led him to choose arboriculture as a lifework and said that the compensations which arboriculture could provide to the arborist included financial security, job satisfaction and personal recognition. He said young arborists should strive to follow approved arboricultural practices and to keep up to date on new techniques, pest control materials and equipment through



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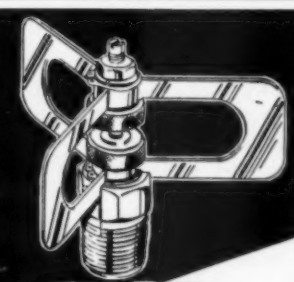
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Food Distribution in Trees

In his discussion of "Distribution of Food Elements in Trees," W. H. Bragonier, department of botany and plant pathology, Iowa State College, Ames, stated that the movement of nutrients in trees is a problem that has challenged plantmen for years, and that the complete answer is still unknown.

The development of much new apparatus and equipment and the knowledge gained concerning radioactive materials and other discoveries have been of great aid to plant research scientists, Dr. Bragonier said. Using a series of excellent color slides to illustrate his discussion, he described the various tissues found in the leaves and stems of woody plants and their functions, the structure of plant cells and the method by which these cells divide during growth processes.

In speaking of plant nutrients, he enumerated the elements known to be used by plants and showed slides illustrating differences in growth rate, foliage color and fruit production that occur as a result of differences in the elements available to the plants. An excessive amount of

any one of several elements can be as detrimental to plants as a deficiency of the element. He pointed out that no plant has the ability to accept or reject any soluble material present in the soil; it will be absorbed by the plant, and the results may be harmful or beneficial according to the nature of the material.

Insect Pest Recognition

The final paper on the program, "Recognizing Insect Pests in Their Different Stages," was presented by Donald L. Schuder, department of entomology, Purdue University, Lafayette, Ind. Dr. Schuder said arborists generally recognize destructive insects in one particular stage of their life cycle, but often cannot identify them in other stages of their development. As to the importance of being able to recognize these pests in all stages of development from egg to adult, he pointed out that this ability might enable the arborist to forecast possible infestations and plan controls well in advance of the critical period.

Defining the term metamorphosis as a conspicuous change in form and appearance between hatching or birth and maturity, he said insects can be grouped according to the

changes that occur during their life cycle. One group, he said, develops without metamorphosis; another, with gradual metamorphosis; a third group, with incomplete metamorphosis, and a fourth, with complete metamorphosis.

Silverfish and springtails are representatives of the first group; grasshoppers, of the second; stone flies and dragonflies, of the third, and moths, butterflies and beetles, of the fourth group. Since most of the insects that are injurious to plants are found in the last-named group, arborists should learn to recognize them in all of their four stages—egg, larva, pupa and adult.

Dr. Schuder then presented a series of color slides illustrating the stages in the life cycle of elm leaf beetle, rose chafer, Japanese beetle, apple tree borer, locust borer, bagworm, cankerworm, tussock moth, mimosa webworm, Oriental fruit moth, the European pine sawfly, and various other pests found in the mid-west.

The conference closed with a plant clinic session, in which many questions concerning treatment and care of shade trees were directed to a panel composed of J. C. Carter, D. L. Schuder, W. H. Bragonier, T. W. Bretz and R. J. Campana.

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